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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20252	50620	A	20368	341	2239	LCASSCPFICPPIRPSVCPAAPL LLGCRAMARGYGATVSLVLLG LGLALAVIVLAVVLSRHQAPCG PQAFAHAAVAADSKVCSDIGR AILQQQGGSPVDATIAALVCTSV VNPQSMGLGGGVIFTIYNVTTG AQWIGVPGELRGYAEARRHG RLPWAQLFQPTIALLRGGHVVA PVLSRFLHNSILRPSLQASTLRQ LFFNGTEPLRPQDPLPWPALAT TLETVATEGVEVFYTGRLGQM LVEDIAKEGSQLTLQDLAKFQP EVVDALEVPLGDYTLYSPPPPA GGAILSFILNVLRGFNFSTESMA RPEGRVNVYHHLVETLKFAKG QRWRLGDPRSHPKLQNASRDL LGETLAQLIRQQIDGRGDHQLS HYS LAEAWGHGTGTSHVSVLG EDGSAVAATSTIYTPFGAMVYS PRTGIILNNELLDLCERCPRGSG TTPSPV/SGDRVGGAPGRCWPP VPGERSPSSMVPSILINKAQGSK LVIGGAGGELIISAVAQAIMSKL WLGFDLRAAIAAPILHVNSKGC VEYEPNFS/QETVSCFVALAVL KLLASSDPATLAPKWRL*EVQ RGLQD\RGQNPDPGPFFLDVV PACV/SQEGACV*RPSRT*RKSG EAAGLLKTLLCPELEVLAPP
20253	50621	A	20369	203	1518	RCYLQFLALLTSTSARAAAAI AAAEPPAGSPSMTRAGDHNR QRGCCGSLADYLSSAKFHL*LG HSLSTWGD RMWHFAVS VFLVE LYGNSLLLTAVYGLVVAGSVL VLGAIIGDWVDKNARLKVAQT SLVVQNVSVILCGIILMMVFLH KHELLTMYHGWVLTSCYILIITI ANIANLASTATAITIQRDWIVV VAGEDRSKLANMNATIRRIDQL TNILAPMAVGQIMTFGSPVIGC GFISGWNLVSMCVEYVLLWKV YQKTPALAVKAGLKEEETELK QLNLHKDTEPKPLEGTHLMGV KDSNIHELEHEQEPTCASQMAE PFRTFRDGVVSYYNQPVF/LGW HGSCFPLYDCPGL*LHHHRVRL HSGTEWFHPQYFDGSISYNWN NGNCSFYLATSKMWFGSDRSD LRIGTAFLFDLVCDLCIHAWKP
20254	50622	A	20370	1	497	
20255	50623	A	20371	1	1575	

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20256	50624	A	20372	251	1351	SLKSTDGVKCGLSINIFHKRREN ILFGMGNPLLDISAVVDKDFLD KYSCLKPNDQILAEDKHKELFDE LVKKFKVEYHAGGSTQNSIKV AQWMIQQPHKAATFFGCIGIDK FGEILKRKAAEAHVDAHYEQ NEOPTGTCAACITGDNRS LIAN LAAANCYKKEKHL DLEKNWM LVEKARVCYIAGFFLHVSPESV LKVAHHASENNRIFTNL SAPFI SQFYKESLMKVMPYVDILFGK* DRSWPTFAREQGFETKDIKEIA QKDTSPCPKMNSKGQRIRDLHP KGRDDT\IMATESEVTA FAGLGI KTQKE\IDTNEAGDAFVGGFLS QL\VSDKPLTECIRAGHYAASIII RRTGCTFPEKPDFH
20257	50625	A	20373	1	201	
20258	50626	A	20374	15	304	
20259	50627	A	20375	51	283	TWVKEAQNDGLVCYIFIFNCQ MTGLDIEKDQIEMACLITDSD LNILAEVRDAHVIQSYFLKGTG NITIIFFSFFI
20260	50628	A	20376	2	520	QRRLRDWGRGCWSRVMLGGS LGSRLLRGVGGSHGRFGARGV REGGAAMAAGESMAQRMVW VDLEMTGLDIEKDQIEMACLIT DSDLNILAE/GNSVHEDKKFLD KYMPQFMKHLHYRIIDVSTVKE LCRRWYPEEYEFAPKKAASHR ALDDISESIKELQFYRNNIFKFKK
20261	50629	A	20377	2	206	EFGTRRHVPPCLINFFKDQGSP* LARLVSNSWPQVIHPPWPPTVL GLRGVGHCPWPRLGNSSWVW GGH

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20262	50630	A	20378	1	1401	MRSQKTSLYFSLEAKFYCSLRN ERIASCDIINDAGIQTKTLMKRS HVAAYALKKKPVEQGDSELESK GFMAITIAVCIEQNLRHSSSLFIC MSSTGQSGTTNNASSLIPSYVFT PPHFNLLDKQGRTAGKSHCGE DRKEHNNACHQEEEEAPDVNPL HGLQASGSPGKTQRIKSQALEG TRL YSHSEETRSGLIRLLRLRQR RLRDWGRGCWSRDM LGGSLG SR\LLRGVGGSHGRFGARGVRK RGAAMAA\GESMAQRMVWVD LEITGLDI*KVQIEMACITDSD LIILAEGPNLI\KQPDELLDSMS\ DWCK\EHHGKSGLT KAVKEST NYHCQQA E\YEFALWYDQPD SLPGLCPTCQEIKFHE\DKKFP* QNTCPQFMKHLHYRI\DVSHC* KELCQTAGYP EYEFA\PKKAA FSIGPLDD\ISENL\KKVPFFPEN NHLPRKKIRMKRKEGKL*KMG ENEKTVS
20263	50631	C	20379	180	248	
20264	50632	A	20380	455	1133	GIEGWRGEADTLPAEGQDGG RVSKGDI FSGGAETAQGWGVM GPFQAAPSKRAGREHRGGQRR VQHVGWYPRPGSDKGHGKGT QDSRVPQLPPHPPPIHLVSRHRG KLRHGFLRPMPEPRGLESKGTG NCFGELQH/RTSP*GRSGPREGG PRNIAQQGGCRGSACGRRSH\E ALRPRVWC GEGPQWTWCAVC P\NRSAPGAGLAD\RQHPGESRA WGETRLGEAGGAE
20265	50633	A	20381	214	412	
20266	50634	A	20382	3	257	PATVIITVNTTWSAALISRESAL RSFPVKAAALSPSREGGSVTAT PNVRSMTSAVPIMRVSVQSKR *PEEQN*QETYPQTTSCR
20267	50635	A	20383	1	1569	
20268	50636	B	20384	15	1744	

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20269	50637	A	20385	2	7205	QASGSCWSSPFFSASTPSAAAT GVPGPTDMAAVLQQVLERTEL NKLPKSVQNKLEKFLADQQSEI DGLKGRHEKFKVESEQQYFEIE KRLSHSQERLVNETRECQSLRL ELEKLNNQLKALTEKNKELEIA QDRNIAIQSQFTRTKEELEAEKR DLIRTNERLSQELEYLTEDVKR LNEKLKESNTTKGELQLKLDEL QASDVSVKYREKRLEQEKELL HSQNTWLNTELKTKTDELLAL GREKGNEILELKCENL
20270	50638	A	20386	120	7384	GWTRFPRVPPRESPAGGRARAT ERGDRGGGPGVWVLLVFAFL RFYPVGRCHWGPWAPPTWAA VLQQVLAERTELNKL\PKSVQNK LEKFLADQQ\SEIDGP*RGGHGE I*RWESQYFEIEKRLSHSQER LVNETRECQSLRLELEKLNNQL KA\LPEKNKELEIA\QDRNIA\IQ SQFTRTKEELEAEKRD LIRTNE RLSQELEYLTEDVKRLNEKLKE SNTTKGELQLKLDELQASDVSV KYREKRLEQE
20271	50639	A	20387	2	433	
20272	50640	A	20388	2	181	GFRRVSLEF*FPGVRWGMRK L GAPDLAPFSQM*SGGRAPCVAS *PPCRGLRLMRTGSRR

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20273	50641	A	20389	1	2422	MAGALAGLAAGLQVPRVAPSP DSDSDTDSSEDP SLRRSAGGLLR SQVIHSGHFMVSSPHSDSLPRRR DQEGSVGPSDFGPRSIDPTLTRL FECLSLAYSGKLVSPKWKNFK GLKLLCRDKIRLNNAIWRAWYI QYVKRRKSPVCGFVTPLQGPEA DAHRKPEAVVLEGNYWKRRIE VVMREYHKWRIYYKKRVSGG GPGRPQSFPPAAAGYRPPRKIPG KGILTPELAPLGPSIQSRADSAT VWPQRLAASLPRGRLRKPSRE DDLLAPKQAEGRWPPPEQWCK QLFSSVVPVLLGDPEEEPGGRQ LLDLNCF LSDISDTLFTMTQSGP SPLQLPPEDAYVGNADMIQPD TLPQLSLDDFMDISDFFTNSRLP QPPMP SNFPEPPSPVVD SLFSS GTLGPEVPASSAMTHLSGHSR LQARNSCPGPLDSSAFLSSDFLL PEDPKPRLPPPVPPLLHYPPP AKQETVPEFPCTFLPPTPAPTPP RPPPGPATLAPSRPLLVPKAERL SPPAPSGSERRLSGDLSSMPGPG T LSVRVSPQPILSRGRPD SNKA LLGSFLGSPNSLLPETENRRITHI SAEQKRRFNKLGFDTLHGLVS T LSAQPSLKVSKATTLQKTA EY ILML\QQERAGLQEEAQQLR\DE IEEL\NAAINLCQQQLPATGVPI\ THQRFDQMRDMFD\DYVRTRT LHNW\KFWVSSLKPMAGGLQ
20274	50642	A	20390	315	387	
20275	50643	A	20391	570	1017	FCLHILQVPHTLAGHSPCAHG/R PPLPRF/HDRLPEEIQQQIVRETF HLVLKRDDNICNFLEGGSLIGG SDYKLIYRHYATLYFVFCVDSS ESELGILDLIQLEQFKKDNEETG FGSGTRALEQALEKTKANIKW VKENKEVVLQWFTENSK
20276	50644	A	20392	1	1128	
20277	50645	B	20393	62	130	

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20278	50646	A	20394	99	718	ENRGWQSMIQAILVVNNHGKP RLVRFYQRFPEEVIQQIVRETF HLVLKRDDN\CNFLEGGSL*L GGSDYKLIYRHYATLYFVFCV DSSESELGI\LDLIQVFVGNWSWIS CFENVV*IW*TFHMDK\VHYIL QEVVMGG\MVLETNMNEIVAQ IEAPNRLEKSEGI\LSAAPARA VSAVKNNINLPEIPRNINIGDLNIK VPNLSQFV
20279	50647	A	20395	3	370	SLHLAAILGETSTVEKL/YAAGA GLCVAERRGHTA/LHLACRVG AHACARAL/LQPRRRPREAPD TYLA/QGPDRTPDTNHTPVAL/Y PDSLEKEEEEESHTPLHVAVIH K/DVEMVRLLRDAGADLDK
20280	50648	A	20396	2	1097	SRQSPATGGRLRWAPDAALAM AVVACLGQAADSDKWGDSRLS SLGPDAAPGGPGGLGAELGPGL SWAPLVFGYVTEDGDTFSAGT EYMDLQNDLRQVSHEGWCR WGPGFPV*LPTACPLLLQTALH LAAILGETSTVEKLYAAGAGLC VAERRGHTALHLACRVGAHAC ARALLQPRRRPREAPDTYLAQ GPDRTPDTNHTPVALYPDSLE KEEEESEEDWKLQLEVENYEG HTPLHVAVIHKDVEMVRLLRD AGA\DLDKPEPTCGRSPLHLAV EGPRQADVLELL\LRAGANPA A\RMYYGGRTP\LGSA\MLRPNPVI LAR\LLRA\HGAPEPEGEDEKSG P\CSSSSDSRLSPSAWSPLPPG
20281	50649	A	20397	47	478	LRLRKLKAIMLA\FGRGKTRNSE ESSDSQEVWIKDTWMFTALGH CGISMFGLDRELTLTNYELFIS SSPTPS*VPQRLCYVVSTFLMYL SLDHLYTGEMKAFLHVLDTQS VNSDFAFFVRLSFQYFYKLLCV LWQGTVNKEFI

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20282	50650	A	20398	1	1992	METFVIGWQPAVTVWTIGVAP PPTLEITSQHEIWVAQHPNYIIS VKQESPAPMPWTAVALDSHRS MNTIVNCAREGSTLHAPYESLM PDDLRWNSFILKSSPSPHSRME KLSSMKLVPGAKYIRDHCLVK EALTIHKSPILLAAIDLLGNLSG FTDYQSYVIHGCLENNPTLERSI ALFNGISKWVQLMVLSKPTPQ QRAEVITKFINVAKGATAELNL WQHPKIIMLSQVVPGVFSQEHS LIRSLHANLHFTVCFPEDPLAM VAGMVQESTCPCEILQLPTTGQ LANWNEMTELVSNGNYCNYS KPFPTCDGLKIPILGVHLKDWA VHVNFDPWTEEIKVNIVKMHQ LSVTLSELVSLQNASHHLEPNM DLINLLTV/DGLQPADLMHAISL FRTSHRPQGLFL*IKGTSPAHS DRSCQHFRV*KCSSWESWHGG/ WLSLEE*MSSFLLRSF*KI/YCSR KNVACQTRAVCTNLDALLSSS QMSNNHHPFSLPAQDEVFEFPG VTAGHRDLDSRAITLVGTSSRK ISVRLQRATTSQATQTEPVWSE AGWGDSGSHTFPKMKS FHDK AAKDKGFAKWENEKPRVHAG VDVVDRGTEFELDQDEGEETR QDGEPAEAVSVGAVAAPGMSE KELLQVDGRTPTRVLRMADLV GISEFRGEPAFV
20283	50651	A	20400	1	417	
20284	50652	A	20401	2	94	

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20285	50653	A	20402	190	2189	AFCPAGTRSAPCPRPRTMTMTL HTKASGMALLHQIQGNELEPLN RPQLKIPLERPLGEVYLDSSKPA VYNYPEGAAAYEFNAAAAANA QVYGQTGLPYGPGSEAAAFGS NGLGGFPPLNSVSPSPLMLLHPP PQLSPFLQPHGQQVPYYLENEP SGYTVREAGPPAFYRPNSDNRR QGGRERLASTNDKGSMAEMSA KETRYCAVCNDYASGYHYGV WSCEGCKAFFKRSIQELPTLC*I GWYWYQNRDIDQWNRTEPSEI IPHIYNHLIFDKRDKNKKWGKD SLFNK*CWENWLAICRKLKLD HFLTPTYTKINSRWIKDLNVRTK TIKTLEENLGNTIQDIGMGKDF MSKTPKAMATKAKIDKWDLIK LKSFCSSLGYLKTENTAKETTIR LNRQPTWEKIFAIYSSDKGLIS RIYKELKQIYKKK/GNPINKWV KDMNRHFSKEDIYAANRHMKK CSSSLAIREMQIKTTMRYHLTP VRMVIIRKSGNDRCWRGCGEIG TLLHCWWDCCLVQPLWKTWV RFLRDLQLEIPFDPAIPLLGIYPK DYKSCCYKDTCTRMFIAALFTI AKTWNQPKYPTTIG*IKKMWHI YTMEYYAAIKKDEFI/SLVGTW MKLETIILSKLTQEQTCKHHMF SFITGSRTMRTHGCREGNITHW GLLRDSVNMVTQAH
20286	50654	A	20403	2	907	RVPAMATSSFALPRILGAGARA PSRWLGFLGKATPRPARPSRRT LGSATALMIRESEDSTDFNDKIL NEPLKHSDFFNVKELFSVRSLF DARVHLGHKAGCRHRFMEPYI FGSRLADHDIIDL\EQTATHLQLA LNFTAHMAYRKGIIIFISNRNQF SYLIENMARDCCGE\YAHTRYFM GGMLTNARLLYGPTVRLPDL/I FLHTLNNIFEPHVAVRDAAKM NIPTVGIVDTNCNPCLITYPVP NDDSPHAVHLYCRLFQTAITRA KEKRQQVEALYRLQGQKEPGD QGPAHPPGADMSHSL
20287	50655	B	20404	70	1477	

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20288	50656	A	20405	153	688	AHPLLRSSPEETSRSRKPRCATT NGFLRIPEKTPPWSPEVAIHRNR ITPNKPPTVKSLEKVFC*LDKE AQKEKESQK*KGPVRMPTKT\L RITTARKTP\CGE\GSKDRWDRF\ QIEISQSR LH*LCTSPF*DLFKQI TFHQYLSPGV*GEKSPFADALS QISIHTIDDQFVKKKKKKKKW
20289	50657	A	20406	26	603	RPRGTLREYKVVGRCPAHSK CHTPPL\YR\MRNFAP\NHVVA KS/RAFWYFVSQKKDEESLPG EIVYCGQGV*ESSPCGSKNFGI WLR\Y\DSRSG\THN\MYRE*PGP *PTAGGCSPSCYPRHGVARHAG PEAHFHFRIERLEEIAGQQNC RRPGCSKQFPRISRKF\LA PPG SLRRQDKPRF\TTKRPNTFF
20290	50658	A	20407	161	418	
20291	50659	A	20408	1	2580	
20292	50660	A	20409	3	264	
20293	50661	A	20410	3	302	ALALLSPWVVDGTRHRGAGGG AHPGGSGRTGAHRGGGRLRHG GLQVPSAPREGS*GPARNRAQ RRAVDRTQ*ECSSKEVYT*RLV PPPPLGHSHSSPE
20294	50662	A	20411	2	415	
20295	50663	C	20412	1	1230	
20296	50664	A	20413	238	1765	VTAYHAATMNEVSVIKEGWLH KRGEYIKTWRPRYFLLKSDGSF IGYKERPEAPDQTLPLNNFSV AECQL\MKTERPRPNTFVIPCP QLTNIIRGTL/HTLVSPNQRE\EW NPPYQVVPQQPSRGGPKARTP WNNKCGSPK*LSHD*ENGSGGS ASHG/RKVTMNDSTYLNLLGK GTFGK\ILFRKKATGR*FA\MK \IFRKKVINAKD*VAHNIQPRAG VLPEHPGNPFLQLR*KYAFDP TTRPVPL*MEYA\NGGELFF\HL S\ RERV\FTEERA\RIFYGAEIVSA SEVTWHSRGRGNTRDNQSWKT LMLEQKMAHIK\ITDFGL\CKRG ASSDGAT\MKTCETPEYLAHE \LEDNDYGRAVDWWGLGVVM YEMMCGRLPFYNQDHERLFELI LMEEIRFPRTLSPEAKSLLAGLL *\KDPKQRLG\GGPSDAKEVME HRFFLSINWQDVVQKLLPPFK PQVTSEVDTRYFDDEFTAQSITI TPPDYDSLGLLEAGPADPASP QFSYSASIRE

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20297	50665	A	20414	192	866	LSCRMRLVLGQNPTLDSIDRS GVRSKRIFNKLRESFHNSAE LTISVNMSYNCCSGNFSSRSCG DYLRYPASSRGFSYPSNLVYST DLCSPSTCQLGSSLYRGCQEIC WEPTSCQTSYVEVQAPAKTSC YRPKNLPCSASPCKTTYSLGSLG FGSSCSRSLGYG*GSCYSVGCG SSGFRSLGYGGCGFPSLGYGVG FCRPTYLASRSCQSSCYRPTCGS
20298	50666	A	20415	312	1420	RSHSNAVPSVWNLTLPLDSGPH QSPASTTGPTNTERSSVPMSCS PPACPTQCVLCSCTEGQIYCG TTCPEPGCPAPLPLPDSCCQACK DEASEQSDDEDSVQPLHVVRHP QDPCSSDAGRKRGPPTAPTGL SAPLSFIPRHFPRPKGAGSTTVKI VLKEKHKKACVHGGKTYSHGE VWHPAFRAFGPLPCILCTCEDG RQDCQRVTCPTIYPCIRHPREK WPGKCKICKPEDKADPGHSEIS STRCPKAPGRVLVHTSVSPSPD NLRRFALEHEASDLVEIYLWKL VKDEET*GSGEVKYLAQGHTA RIFHLTQIKKVRKQDFPERGTA LPTARWPPRRSLERLPSDPGAE GHGQSRQSDQDITKT
20299	50667	A	20416	17	1008	KSGARSLQPQFLRAPEDGGPLS LPNAAMARGPKKHLKRVAAP KHWMLDKLTGVFAPRPSTGPH KLARECLPLIIFLKDQTLNALT GD\EVKKI\CMQRFIKIDGKVRT DITYPAGFMDV\SIDKTGREFP VL/YLIDTQGVRFCL*HRIYTLR EGQSTSLCKVRKILLWAPKGIP HL\VTH\ DAR\TIR\YDPDLIQGE MNTHSRLI*KTGKI*FPSKFDH LVTCVMVT\GGA\NLGRNWVLI TQQRSTLGSF*PLVHVK\ DAN GNKLLATSDFSNI/VVIGKGNK PW\ISL\PRGKGIPPHHLEERDK RLAAKQSSWVKWGPWVTWSD
20300	50668	A	20417	1	1377	
20301	50669	A	20418	1	2178	
20302	50670	A	20419	158	250	

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20303	50671	A	20420	1	860	MDQTVKSLMASEEEEYSTKEEK YEKEMKLLEEKLKEAETRAEF VERSVAKLEKTTDDLEETLASA KEETWRFIRPGTRPYWNSATCF LLPGHKMAAEVHKLNPNVSEH DQERWHDAFGNGGADNHSL QASTRRGGPLSQELLQSLAASL AAGGLTALSAEFTIGKGELMAH DVLWGCAPDEYDDLISGTCSHL PKGKTHDVLTGSDDGHRHSNTS LAWGAGVQFNPTESVAIDIAYE GPGSGDWRTDGFIVGGLFCGV NMAVKIS\GVLKDG TGKPVQN* TIQLKAKRNSTTVVNTLASEN PDEAGRYSMDVEYGQYSVILL VEGFPPSHAGTITVYEDSQPGTL NDFLCAMTES\ DARPEALGRFG LYWWKEVARNAS\AVGQNTA AAKKSASDASTSAREAATHAV DAGGFKNAQARTSSPDKAGSA GFKQGFPRGGNGINKRAT*RIK KVACR*SLMASEEEEYSTKEEKY EKEMKLLEEKLKEAETRAEFVE RSVAKLEKTTDDLEETLASAKE ETWRFIRPGTRPYWNSATCFLL PGHKMAAEVHKLNPNVSEHDQ ERWHDAFGNGGADNHSLQA STRRGGPLSQELLQSLAASLAA GGLTALSAEFTIGKGELMAHDV LWGCAPDEYDDLISGTCSHLPK GKTHDVLTGSDDGHRHSNTSLA WGAGVQFNPTESVAIDIAYEGP
20304	50672	B	20421	34	800	
20305	50673	A	20422	130	368	RQVITTL YIPYRRRHLSPPDPEQ PLNHKQNRKVNHHGGTEFQVVV LPFPKMKINCYRRNQFFLFFFST VKVPVGWSMVPLQAATAGAR L*NSDISPLKSQQTQDKFPSSKP PHIYIKK
20306	50674	A	20423	1	57	

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20307	50675	A	20424	85	874	GPRGLVSMAGGSVEVTPSTFTC YLRPPSASPPTPPSHPGLLPRSPA LCSLHTGARTLPLFGGRCSSA VLPPRPGP/RAGSGSGQRERFHR FQPTYPYLQHEIDLPTISLSDG EEPPP*QVPCHLQVR\DPKQQL\ ELNRE\SVGAPPNRTIFDSLMD SARLGGPCPPSSNSG/ISAPTCYG \SGGRMEGPPP\TYSEVIGHLPG GPSFQH\Q\QSSGPPSLLEGTR\ HPHTHSRP*RSAAIWSKEKDKQ KGHPSLGSPGGPGLGLRR
20308	50676	A	20425	3	250	ESVSATEDLAPDAAQGEDNSEI KELL\RENEPLPACNGPAQAQPS PTTERAKSQEEVLPSSTTPSPGG ALSPSGQPSSSVDA
20309	50677	A	20426	2	393	
20310	50678	A	20427	1066	1824	
20311	50679	A	20428	3	902	
20312	50680	A	20429	1	2163	
20313	50681	A	20430	1	1890	
20314	50682	A	20431	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPPTSKLLHFSAFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYYSEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVDYDSARH

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20315	50683	A	20432	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSTTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPEVPPEK PVRTPEAKENENIHQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE

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20316	50684	A	20433	158	1830	QLQSKMKLFWLLFTIGFCWAQ YSSNTQ/SKGRTSIVHLFEWRW VDIALECERYLAPKGFGGVQVS PPNENVAIYNPFRPWWERYQPI VSYKLCSTRSG\NEDEFNMVTR CNNV\GVRI\YVDAVINHMCN\N AVSAGTSSTCGSYFNPWKLRTF PAIPYPGWDFNDGKC\KTGSGD IENYN DATQVRDCARLTGLLDL ALEKDY\VRSKIA\EYMNHL\DI GVAGFRLDASKHM\WPGDIKAI LDKLN\NLSNWFPA GSKPFI\F QEVIDLRVGEPNLKASDYFGNG RVTEFKYGA LGTVIR\KWDGE KMSYLKKWG\EGWGF\MPSDR ALVFVDNHDNQRG\HGAGGASI LTFW\ DARLYKMA\VGFM LAHP YGFTRVM\SSYR\WAKHSFKKG NDVNDW\VGPTQINNG\VIKEV TINPRH*LVGND\WV\CEH\RWR \QIRNM\VNFRNGSGMAQPFLQ NWYDNGSNQVAF\GRGNR\GFI VFNK*WPVIFI*LCKPGLPAGSY CDVISGDKVIGNCSAIKIPVSVD GKAHFSMSNSAEDPFLAIHAES KIVKFKIKCKSAKQKKKKKKG RPF
20317	50685	A	20434	3	383	
20318	50686	A	20435	1	378	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGG\SK DKNLVKYS AIYHKRKLLELLFD YEIEKEPPAFSLSSATVASCCTA TCWSSCRPVASAACV
20319	50687	A	20436	1	558	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGGCK DKNLAKYS AIYHKRG CIVIRYT APWHMVFFSES LGIPSLRVLAQ KLELLFDYEIEKEPLL FHVFSN G\VRHAVPLTCWELLQTRRFCR LRVVG TIFDSAPGDSNLVGGSA GLGSHPGARG

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20320	50688	A	20437	78	1237	CWSHSDTYWPRTPRPPPPGRPG PVVHLAQPV LHPEAGIPEFWES GSPGQTRGAALVLT VHICVSEN SPSPGGKEAETRQPVVILLGWG GCKDKNLAKYSAIYHKRNTAT LQPPLTYMRGWGLFLT GAPAD QYLIQIKRISQWL RGCIVIRYTA PWHMVFFSESLGIPSLRVLAQK LLELLFDYEIEKEPLL FHVFSNG GVMLYRYVLELLQTRRFCRLR VVGTFIDSAPG*QQPG*GL\SGP GQPSWERRARPMLRLLLLVAF ALGGSSCFHVLLAPITALFH THF YGQAYRTRALAWPELYLYSRA DEVVLARDIERMVEARLARRV LARSVDFVSSAHVSHLRDYPTY YTSLLCRTSMRKLRLPKAIAPS HLCSQKINALKPSP
20321	50689	A	20438	3	427	
20322	50690	B	20439	101	1099	
20323	50691	A	20440	733	2228	

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20324	50692	A	20441	582	2595	PPPVRRRDPGPAVRPAGAMA KKSAENGIYSVSGDEKKGPLIA PGPDGAPAKGDGPVGLGTPGG RLAVPPR\ETWTRQMDFMSCV GFAVGLG\NVWRFPLYCYKNG GGVFLIPYVLIALVGGIPIFFLEIS LGQFMKAGSINVWNICPLFKGL GYASMVIVFYCNTYYIMVLAW GFYYLVKSFTSTLPWATCGNY/ TWKHSPTCVEIFRHEDCANAS LANLTCDQLANR\RS\VIEFWE NKVLKLSGGLE\VP GALNWE\V TLGLLACWVLVYFCVWKGVK STGK\IVYFTA/THYPYVVLVVL LVRGVLLPGALDGIYYLKPDW SKLGSPQVWIDAGTQIFFSYAIG LGALTVLGSYNRFNNNCYKDA IILALINSGTSFFAGFVVSILGF MAAEQGVHISKVAESGPGLAFI AYPRAVTLMPVAPI\WAALFFF MLLLLGLDSQFVGVEGFITGLL DLLPASYYFRFQREISVALCCA LCFVIDLFMG\TDGGMVVFQLF DYYSASGTTLLWQA\FWECVV VAWVYGADRFMDDIACMIGY RPCPWMKR\CWSFFTPLVCMGI FILNVVYYEPLVYKQN/TYVYP WWGE\AMG\WPFALS\SM LFVP L\HLLGLPSLRAGHPWLKRW QH\LTQPIWGLHPL/EELPRFRD ADVQGT LTHP*TPVSESSKVVV
20325	50693	A	20442	1	363	MGKRGLILLIEACIAIAQPLQRW FVVPPRAGMPVTYD/HSNSAAG SPPV*NARLCSPGEKVL CRSQT GNFPHTPQEQA VPSAWNALPV QP*SH/GPSPMLVPCRCVCPMET RVQGSASPGGQG
20326	50694	A	20443	747	1389	LGAVQLCPPPCR PCHRAALPGG LFPPPRPPHSPQAGPLHPQWTQ* PGSVGSPTQLSPEASRPQWPPT A\GSPRAGVHPGHGQA*SADISS AKQWTQVGPAGQGGSKF GKT KVPWQSGPLGWDPGARAGQG VG*ETRGPSLQLAWS DGEGV/P GWRGSYRGHRRGP*PPAPWPW SGGHPGSPMEWPCPGTELQMR NRAGSRDLHSLGRAPPAATAPS

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20327	50695	A	20444	90	1181	RAEPHLQVPGVPGSAQKPQGT QMAPVSPRRGPQRGWHTLGAQ RLLPQAALSSPAFPQHPGGRWA PRRRGQSSQGHSPESLPSERAQP HWNHPQLLSPCTPLSCP*GGPR QA/EQAGDSGSGTWVGLGAAP SERGAPMSARHWLRAPGRRPIF LLSALW*TPAWGGGPAASRSP GGPSSRVVGCPLCPLAPGPVPS VE*RPMSTKDLPPSPR*KP/PA GPAPV*/SPKAVGIPAWERPPT PETEGAGGSCAERLLAPVEMAP VSRGQRDPPEGSRHG/DPPTDT AALGGPRPPQHLPRTRQHWI* GPGAPPTDTAALGDLRPQSPGL LMELG\PISRDPHGRGPWQGPV GKLWPGGQGSCPQSPPV
20328	50696	A	20445	2	957	IPSRKDHEKAEFEVHEVYAVDV LVSSGEGKVRVPPELAKRGD*E CSPDQMLLKLLFQAKDAGQRT TIYKRDPKQYGLKMKTSRAFF SEVERRFDAMPFTLRY*AMIVL GTSLTHRPYTQEHFFLSLPA*TC SVHVLTPSLSLPISFSLKVM*KS NPKHDFCLRVGAILKYEQNGK T*WGVKDTSEYHLPCQAFEDE KKARMGVVECAKHELLQPFNV LYEKEGEFQKELHFGFPDYKISF L*VQKS*V*QRNFLSKHIFIFAIG EFVAQFKFTVLLMPNGPMRITS GPFEPDLYKSEMEVQDAELKA LLQSSASRKT
20329	50697	A	20446	85	266	

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20330	50698	A	20447	207	1759	LSQRALRLSPRARSFSLSPACPL PCLLALSLALSSRIEGLTTACG WGRETEAAAAQGKRGCSGGS KMSGEDQQEQTIVD/DSLVT KYKMGGDIANRVLRLSVEASS GVSVLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSISGTIN *PI/CHFSPFERSD\QDYIPPRKGD LVK\IDLGVPCWMGFIANVASH/ SFVVDVAQGTQVTGRK\ADVIK AAHLCAEAA\RLVKPGNQNT QVT\EAWNKVAHSFNCTPI\EG MLSHSLKQHVIDGEKP*FQNPT DKQK\RAHEKADFEV\HEVYAV DVLVKPQERARPKDAGQRTTIY KRDPSKQYGLKMKTSRAFFSE VERRFDAMPFTLRAFEDKKA RMGV\VECA\HELLQPF\NVLY EKEGEFVAQ\FKFTVLLMP\NGP MRITS\GPFEP\DFYK\SEMEV\Q DAELKALLQSSAKSEKPQKKK KK\KASKTAGEWPLVAFSAVLE TFRRKWKLGGLEVGPISPACCS CLHPPSHQTPRLCEVQFFFST
20331	50699	A	20448	1	3825	
20332	50700	A	20449	1084	2429	ARERSLRGSPAREREKERKCTA LSE*GEQMERKTNS*TKQTE*N RNEIGPRGAGPPGDAGSGRQPA LRPHVHKQTEKTTRVRTVLNE KQLHTLRTCYAANPRPDALMK EQLVEMTGLSPRVIRVWFQNK RCKDKKKSILMKQLQQQHS K/SGEQPLGRRLESGGGCASAA VSACPFLGEPWEIQGELGAPDG VCLYLHASKASLGFEASYFVWD RGFSLSQWQPRVAGSGRCAEP KAAWQCAAPASRAGGLCTPSA AAERSPVEKEGSSDAIECAPPR KAMQTLNHSRPGAPVSKVAEK ARPNSSTYCLLLAPQSLQGLTG TPLVAGSPIRHENA VQGS AVEV QTYQPPWKALSEFALQSDLDQP AFQQLGLLSAGGRSPRDTFRLG ARGPGAPARVPLHLPLPGVSAA P\VSFSESGSLGNSSGSDVTSLS QLPDTPNMVPSPVET
20333	50701	A	20450	133	276	
20334	50702	A	20451	2	205	WDTSS*SLRTPRSRQVSTRPRR KKEKLPSKGMFSSVSLPQVLTQ RHQRPTCSWSLCWQPQHLILLR S

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20335	50703	A	20452	182	411	GRAWPAPPTSVTPRLRSPAESP RWPSAEERSSLP/VRGRRPGYG* VSCCGPRAPPGVNGDALRSARP AQLPA*RPQRH
20336	50704	A	20453	786	1208	GVHRGTHGRQKWRPCAPRAQ HSWGPGGRLPAGCRG*AGSCA/ PSLGL*CGAGPQGWRDP*TR RRTPRRPPRGPRPRVWMAPPAR SHPWRAAPRSAGAAPRPLGLG GRSGRETRPAPGGELQRPAAAG PPLMSCGWRVLA
20337	50705	A	20454	385	727	KAMSPVFPRHSKWDLDSRPLF TSAALLSACKILKLKVDKNKM VATSGVKKSYI*STV*TTREDW TAGRQRTWRCIYSTTEEKEDSG *SPSKGNGEGRGDAT*TTER*RS DTGL
20338	50706	A	20455	568	3382	HPGWVARGPGAGEGHAAGCG PARCQAGGPLQDGGCGGQGHR FGGGHVPEIKGGGFPHAGACAL EERQPR*QP*GVGKRGGGLFHA SSSPSSGGSRTPEAG*GGA VCR AGDLGHIDDAGDHGDSGK\KE RVEEEGGKPKHVLSTSGVQSD AREPGEESQKADVLEGTAERLP PIRASGLGADPAQAVVSPGQGD GVPGPAQAFPGHLPPTKVEAK APETPSENLRTGLELAPAPGRV NVVSPSLEVAPGAGQGA
20339	50707	A	20456	762	1245	LRQYSVKMRIVPTILLNFGADP DLRDIRYNTVLHYAVCGQSL\S LVEKL\LEYEADLEAKNKDGYT PLL VARY*QLIPKLVKFLE\KG ADVNASDNYQRTALILAVSGEP PCLVKLLLQQGGEICNEG\MVD SQLRNMFISMVLLHRYPQFTAS HGK\QKHAK
20340	50708	A	20457	346	608	PKRRGAPLPVIPQSAS*KPKLPM GRPPPPVPSVSPGPLPGSLAIAP HSLEPHLVQSSCLVPPKTKQS KRKPGRGAQAPTLPNATEFSVC RNDPKEGRRSP*FPNRLLEPE APPRPSAGESPRPAAA/SPLPCSE EK/PTPQLCARERLAPSAAPPPP PRCGPAPLLEPSAWTPELARRA

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20341	50709	A	20458	340	889	SAPFSSGERTPGCPEASPFPGGG GGNARPSGPAPHPSSAS*KPKL PMGRPPPPVPSVSPGPLPGSLAI APHSPEPQLVQSSCLVVPKTK QSKRKPGRGAQAPTLPNATEFS VCRNDPKEGGRSP*FPNRLLE PEAPPRPSAGESPRPAAA/SPLPC SEEK/PTPQLCARERLAPSAAPP PPPRCGPAPLLEPSA/EAEEGGW GAGPLGRALPPPPPGKGLASGQ PGVRSPPDEKGADQRQPSGPRLC SAPAPRRRS/PPRRRRPSNFVPED QPHYVPGSASAGPRRSPRPPRR ELGAPSHLP
20342	50710	A	20459	148	397	GHKELVTGTEAIELAHAYETCH AVPRTIAKLVPKTH\LMSESEW RNLGVQQE/RQGWVH\YMIHEP EP*HFGCSRRLTQGTQRK
20343	50711	A	20460	139	272	VLKPGGSYSFGSPSCNSSH*LIG FQKWKDVPCEDKFSFVCKFKN
20344	50712	A	20461	440	1167	ARDSLQLSMAQTSSYFMLISCL MFLSQSQGQEAQTELPQAR\ISC PEGTNA YRSYCYF*WKTRET W\VDADLYCQNM\NSGKLGVC GSPRAEGCLFWPQLI*GGVGT* WTFNVLDLGLQ*PPKRTRRWH WEQWGPLVSLQSSWGHWEPPS RCLNPGY\CVSLDLQSTRISRN WKDVPFVKDK\FSFVCKVQKT RGQAGKIQCLELTPAITNGVQK LNRTISPTQLNLVTLFSAEFALLI FNSFT
20345	50713	A	20462	3	322	
20346	50714	A	20463	1	420	DLYELVQYAGNIIPRLYLLITVG VVYVKSFPQSRKDILKDLVEMC RGVQHPLRGLFLRNLYLLQCTR NILPDEGEPTDEETGDISDSMD FVLLNFAEMNKLWVRMQHQG HSRDREKRERERQVSW\RCKCG TLQ\QIVLTG
20347	50715	A	20464	1	1446	

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20348	50716	A	20465	3	2564	LGAGAACCRLWGVAMPTTQQ SPQDEQEKLLEDAIQAVKVQSF QMKR\CLD\KNKRIGVRHKTML RNMLGVELRTSMLSPKSYELY MAISDELHYLEVYLTDEFKGR KVADLYELVQYAGNIYPQGF YLLVHLSLSCNNVKSFPQSR\DI LKDLVEMCRGVQH\PLRGLFLR NYLLQCTRN\LPDEGEPTDEETT GDIRDSMDFVLLNFAEMNKLW VRMQHQGHSRDREKRERERQE LRILVGTNLERLSQVE\WCKCG TLARQIVLTGILEQVVNCRDALA QEYLMECIIQVFPDEFHLQTLNP FLRACAE\HQNVNVKNIIIALID RLALFAHREDGPG\IPADIKLFDI FSQQV\ATVIQSR\QDMPSE\DV VSLQVSL\IN\AMKCYPDRV\D YV\DKVLGNNSGRIFNKLNLLEHI ATSSAVSKGNFTRLLGKLPVGH FTNNILT\VL\KLKHFHPLFGYFD YESRK\SMSCYVLS\NV\ADYNT EIVSQDQVDSIMNLVSTLIQ\AQ P\AQVQVDPDPEDF\ADEPEALV ARFIHLLRSEDPDQQYLILNTAR KHFGAGGNQRIRFTLPPLVFAA YQLAFRYKE\SKVDDKWEKKC QKIFSFCPTKT\ISALIKAE\AQE LPLRTFSFKGGT*LA\AGELGFG NHG\TVAY\EFMSQGIFSVWKD/ EKSGDFPKAQLGWPFTFGSIGA LFEVVEVLSVEEDSWNPLR\TQ
20349	50717	C	20466	23	385	
20350	50718	C	20467	16	435	
20351	50719	A	20468	1	436	
20352	50720	A	20469	1	747	
20353	50721	A	20470	1	864	

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20354	50722	A	20471	2	2138	VGRAAAAAAAAAVAVPLAGGQE GSPGGGRRGSRGTTMVKKRKG RVVIDSDTEDSGSDENLDQELL SLAKRKRSDSEEKEPPVSQPAA\ SSDSETSDDDEWTFGSHKHKK KGQARTLEQKGTMKKQANKT ASSGSSD/RTDSSAESSAP\EEGE VSDSDSNSSSSSSSDSDSSSEDEE FHDGYGEDLMGDEEDRARLEQ MTEKEREQELFNRIEKREVLKR RFEIKKKLKTANKKEKKEKKK* QEEEQEKKKLTQIQESQVTSN KERRSKRDEKLDKKSQAMEEL KAEREKRKNRTAELLAKKQPL KTSEVYSDDDEEEEDDKSSEKS DRSSRTSSSDEEEEEKIEPPKSQP VSLPEELNRVRLSRHKLERWCH MFAFFAKTVTGCFVRIGIGNHNS KPVYRVAEITGVVETAKVYQL GGTRTNKGLQLRHGNDQRVFR LEFVSNQEFTSEFMKWKEAM FSAGMQLPTLDEINKKELSIKEA LNYKFNDQDIEEIVKEKERFRK APPNYAMKKKTQLLKEKAMAE DLG\DQDKAKQIQDQLNELEE RAEALDRQRTKNISAISYINQRN REWNIVESEKALVAESHNMKN QQMDPFTRRQCKPTIVSNSRDP AVQAAILAQLNAKYGSGVLPD APKEMSKASVGQGKDKDLNSK SASDLSE\DLFKVHDFDVKIDLQ VPSSSESKALAITSKAPPAKDGAP
20355	50723	A	20472	438	709	FLSQSWIFKQIRASRTLFLVAFS SNTFTSCRSFCSSEAMGAGSG RSPQLQPRRRNRKPRAEPSNR AQTPTRTS/LRRCSLRPHRPCAR SR
20356	50724	A	20473	2	1315	ILQKRIGGFLDALVRNSQPARYI NDYQLSNYGLDMLGPSLDPAP MASEELQKDLEEVKVLLEKAT RKTEKSKIETEIKNKLQQKSQK KAELLDNEKPAAVVAPITTYT KGGGGEERGGEAPTSNEAQAT EVRGGAGGGKDKDDGDRER\P RKTRGGRARTE*NNRHEQ*IQI KKRRETEKERRNEKGRRRHKT ATQKRREERRARRVGEGTRK REQPAHEQEHAATTTHTRPPAP/R RTRKTQTHNRKERKKEE
20357	50725	C	20474	43	162	

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20358	50726	A	20475	2	363	YEPLDSNKRIGHTSSSSYVLCLCS SLAIFSNFMGNLLSFCGVLKLLK SLACIH*RFFFN*A**VFIHSSRE Q*FINVCSSCPAFFNPERRNELY ASLLSFVPSALVPIFEDNVSYLF VKSF
20359	50727	A	20476	505	2294	VYSDAKSIYCLLFAHSQRPPCV FNENDPQNSGTVHTVFLVGLTD HRHARAKIESWAGEAAPFTLV AASADKLFGDLHISKYCGRIAV SVFQFQQYCGLCDSTS/SLQQY CGLCGST*HSGSTVASVAGLHI VAVPWPLWQDFTLWQYRGLC/ AQDFTLWQYHGLCGRTSRVAV PWPLWQYFTLWQYCGLCGRTS HC/GQYRGLCGRTSHCGSTVAS VAGLHVWQYCGLCGSTSRC/E QYHGLCGRTS/RLWQYHGLCG RTSYC/EQYRGLCGSTSRCG/MY RGLCGRTSH/WWQYCGLCSSSTS YCSRTVA\LWQYFIL\CASTSY/W QQYHGLCGNTSYCGIL\QLQQY SGLCSSTSYWGSTVASVAVLHI AAVLWPLRQYFILQQNRGFCG NTSYCG/SYFILWQYHGLCGST SYCG/SYFILQQYHGLCGSTSYC /EQYRGLCGSTSYC/TQYCGLCG SSSYC/AQNCGFCGNTSYCGSTS /VLQQYHGLCGSTSYCGRTV/V FCGSTSYWGSTSYCGSTVASLA VLHIVAVLCPL*QYFTTNKTKN KTKPGSCHLTYFGGAAGGPSL* APGGVAGTVGSASRSASWGLP EWICCLRDPKSLSPFYWGFVW
20360	50728	A	20477	2	554	LSSTGGLHAGRLCCSPCLLVIPL KSSQHIF\RVL\NTNIRLGRRKNS PLPITAHLRVWARRYA\HV\VL KADIDLTK\RAGEL\TEDE\VER VITH/ILQNPRQYKDPKTGFEEQ DKKDVK\DGKYSQVPSQLVWD NKLP*KTWEPTERRFRAH*/RGL RHFLGAFRVRGQAHQEPLGRR GRHRWVCPRRK

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20361	50729	A	20478	50	774	LFGVVYTGFC LGVWTAGVGGV PGPNFPRPILTLVRGP*GKGVG WVAGPGQLRPTGPWSI*VSHPT PPGPLSISYRAQAAGGQGPAPI THPQGRQEP*RQLPPGGPLA/RH PPKAPDPARPHP/RQHRGPS/ST APKGRCWQHKQEPSGHPAGHT PGRPG/PPQAPPRPSPWVGPGPQ TPTPCP*DEPHRPPGLQPWRPFS PLAMAPMGRLQALPGLDQRGQ TVSPLRLLGALES LAWLP SAFIA
20362	50730	C	20479	156	908	
20363	50731	B	20480	1	804	
20364	50732	C	20481	278	551	
20365	50733	A	20482	169	1144	INYSLEKHV GALGRVLFSL*RA GCPGMGSTRERGLYL GKHRGS GGIW*ALAGP*KSRGDSVSLTQ GHTHVCSRSPR*ADSPPG/SHLS PVPHSVEVAGHVLPATRAAV PCSASAGA*QSTYRTGVHQGNP TV*TK/PSRRPSGGVAK*FLPSA VRGEPGAKPLVDDLLPGWSLA THGQPPLVAAPGSGLWGRPAD A*GCETAGGSPCPRSTS RPSGPS GVQGCPLG*AGSGASASRSEPP GSTSCCPRAP\T*PAAPCVDPWP AGDQWRSHGYLPPSREL*G/W MPPSRPATLPQLAFARQRQGNR FDAAFESSGEDFHQMPRVGRM
20366	50734	C	20483	31	90	
20367	50735	B	20484	48	197	

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20368	50736	A	20485	5447	5642	PRDMESCYNPGLDGIIEYDDFK LNSSIVEPKEPAPETADGPYLVI VEQPKQRGFRFRYGCCEGSPHGG LPGASSEKGRKTYPTVKICNYE GPAKIEVDLVTHSDPPRAHVAHS LVGKQCSKLGICAVSVGPKNM TAQFNNLGVLHVTKKNMMGT MIQKLQRQLRSRPQGLTEAEQ RELEQEAKELKKVMDLSIVRLR FSAFLRASDGSFSLPLKPVTSQP IHDSKSPGASNLKISRMDKTAG SVRGGDEVYLLCDKVQKDDIE VRFYEDDENGWQAFGDFSPTD VHKQYAIVFRTPPYHKMKIERP VTVFLQLKRKRGGDVSDSKQF TTYPLVEDKEEVQRKRRKALP TFSQPFGGGSHMGGGSGGAAG GYGGAGGGGSLGFFPSSLAYSP YQSGAGPMRCYPGGGGAQM AATVPSRDSGEEAAEPSAPSRT PQCEPQAPE\MLQRAREYNARL FGLAQRSARALLDYGV TADRR ALLAGQRHLLTAQDENGDTPL HLAIIHGQTSVIEQIVYVIHHAQ DLGVVNLTNHLHQTPHLAVIT GQTSVVSFLLRVGADPALLDRH GDSAMHLALRAGAGAPELLRA LLQSGAPAVPQLLHMPDFEGLY PVHLAVRARSPECLDLLVDSGA EVEATERQGGRTALHLATEME ELGLVTHLVTKLRANVNARTF AGNTPLHLAAGLGYP TLRLLL
20369	50737	A	20486	3	346	PQTITDELWVTLTVEVWDIST/ LFPGN*SHA/TLPSH*NLITLTP NANI/AIPQHALKGLKPVITRLL QHGLLKPINSPYNPILPVQKLD KSYRLVQNLRLINKIVSPIHPVV PN
20370	50738	A	20487	1	808	YGTSLLLPWQLITCPLPSH*NL ITLTPNANI/AIPQHALKGLKPV ITRLLQHGLLKPINSPYNPILPV QKLDKSYRLVQNLRLINKIVSPI HPVVNPPAFTSQITQAVSQAL GIQWNLHIPYHPQSSGKVERTN GLLKVHLTKLSLQLKDWTVL LPLALLRIRACPRDATGYSRFEL LYGRTFLLGPNLIPDTSPLGDYL PVLQQAQAANLLLPTDPQPH EDTLAGRSVLVKNLTPQTLQPR WTGPHFIHYSTPTAVCLQDPPH

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20371	50739	A	20488	2	513	CCPIASEAQ*TITDAELWVTLTV EAQSLLRVFLSYLPTLTHKYGT SLLLWPQPITCPLPSR*NLITLTP LN/GQYPIPQHALKGLKPVITRL LQHGLLPINSPIYHSPILPVLKP DKAYKLVQNLRLIYQIVLPIHP VVPNPYTLSSVPPSTTHYSVL DLKHAFFTIPLQP
20372	50740	A	20489	1	1893	
20373	50741	C	20490	1	1806	
20374	50742	A	20491	1	645	MTSGPQINQPKKHLTNFKSEPS DL/FPSSPGCSLPAED*RCPIALE AP*TITQARVTLIVEGKSVPLV NTEATQSTLPSFQGPVSLASITV VGIDGQASKPLKTPLLWCQLG QHSFMHSFLVIPTCPVPLLGRDI LTKLSASLTIPGLQPHLIATLLP NPKPPSCLPLSPHLNPQVWDIS TSLATDHMPITIRLKNHPYPAQ RQYPIPQHAKD
20375	50743	A	20492	113	328	LGSGAWGGGDLPWEINPLSSCS LLREKDLLTTSQPQTSPRNISP ILNRDPTVQLTWQPLPELELW PKAL
20376	50744	C	20493	183	254	
20377	50745	A	20494	1	511	MWKGPGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTTSPRNISILNR VSEVSDHAGTPALVLHP
20378	50746	A	20495	1	1108	MWESLELPGNIFNGFDQNADN DMDDEIQAEVISDGDDEFVGN WNKPRDLVPCILATLALTKRGQ DTAQTMASEGARPKHWQLPGG VGPVGAQKSRIEVWEPLPIFRR MYGKACMSRQKFAAGAGFSW YVPVAVVGAKVHDVNLHMLS FPSKWKLHTCMKFGAVTQIVTS LGRSSCSLLEKDPPMVLRTSP RNISPISNLTKETRFIRGPKTPAP VTDWEGSLPLVFNHCRDASLII HPGFRGVRPRRDACLSPSPLAN LINLTFKVYNNRKKLQFLAFTV RQTSAMSPAHKNFQTPEPQRPG IPPEPPPPGACYKC/HEIRPPGQG MPAAQDSS*ATS/LSVRDPTGN WTVQLTWHPLPELELWPKAL

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20379	50747	A	20496	128	302	TAAARHSSRTSSPRSLLQVLEI WPSGQGMPAAWDSS*AASHL WQPLPEPLELWPKAL
20380	50748	C	20497	80	106	
20381	50749	A	20498	196	575	
20382	50750	A	20499	1	505	TKETRFIRGPKTPAPVTDWEGS LPLVFNHCRDASLIHPGFRGVR PRRDACLSPLANLINLTFKVY NNRKKLQFLAFTVRQTSAMSP AHKNFQTPEPQRPGIPPEPPPPG ACYKC/HEIRPPGQGMPAAQDS S*ATS/LSVRDPTGNWTVQLTW HPLPEPLELWPKAL
20383	50751	A	20500	372	563	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQT/TSRPNISPILN/PEK KETRFIRGPKTPAPVMD
20384	50752	A	20501	96	505	WS*QP*GLGSHRHHRRRHHRSS SSSSSSSSSSSKSNSDWQPLPEPL ELWPKAL
20385	50753	A	20502	79	207	
20386	50754	A	20503	583	736	
20387	50755	A	20504	99	246	DLIFHQRHSVSAESLTMHGLNN *QTSKRVVQGTWQPLPEPLE LWPKAL
20388	50756	A	20505	654	719	
20389	50757	A	20506	71	951	LRSGDLPWEI/NPLSSCSLLREK DPPTTSGPQT/TSRPNISPISNPR/ PKETRFIRGPKTPAPVTDWEGS LPLVFNHSRDTSLIHPGFRGVR PRRDACLGPSPLAASPTFLGKG PAAPRQTELGPNSSSASAPPPYN PFIASPPHTWSGLQFPSMTSPPP PAQQFTLKKVAGAKGIVKDLIN LTFKVYNNRKKLQFLASTVRQ TPATSPAHKNFQTPQLQQPGVP PEPPPRGACYKFQKSGHRAKEC LQPRIPKPHPICVGPHWKSDCP THLAATPRAPGTLAQGSALTSPSI

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20390	50758	A	20507	1	1010	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGDSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKKNGEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFRTSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTTSRNPISPNRQRRQV LSMDPKLRHRSRTGKAAPWC LIIAGTPL
20391	50759	A	20508	3	539	IVDDCGGAFTMGVIGGGVFQAI KGFRNAPVCRLLEAPLFIYSCS RSVSPTVNVSSERAESRPTLFM AVSLHMAWCLAHIGIRHRLRG SANAVRIRAPQIGGSFAVWGGL FSTIDCGLVRLRGKEDPWNISITS GA\LTGAVL\AARSAPLAM\VGS AMMGILL\ALIEGVSILL/TR*T ATV
20392	50760	A	20509	3	778	GEQRAALPPAPKECTHPNVTNT LVQAESSDAGVRLRWGRGLTA RPDASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APSTTGSFAVWGGLFSTIDCGL VRLRGKEDPWNISIT\SGA\LTGA VL\AAP\SGPLAMGGLQQ*WGG ILSAPHLRAFGILL\TR*TA\QQF RKWAPNSLEDP\SQLPPKDVT\P APGYP\SYQQYHLRKPLATMGA TSSVFPDGGSTLKGGRAGFP
20393	50761	A	20510	1	231	LRWRVWSLSLLMFRCVRSFLL VGSWSRWFRSEAADLCGECYS S*GSTSGVVRFSRWACGLAGLR SEAADLAPPTSC
20394	50762	A	20511	318	494	

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20395	50763	A	20512	1	1234	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPQQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGSLLRSQM PCADLSILKEAAETLDSTSTRNS AFLGNTHDEAPIVHVFIPLAYS TNIWSLIFNPTTMIMMCSRDLW SSCENKRVDLAFGLVYSGTPVQ KLEQMKFSPQLGCNHFESKDR NDFLFAPEEIEKDPQGESLLCDF MTKTPKAMATKAKIDKWDLIK LKSFCTAKETTIRV NKQPTWE KNFAIYPYDKGLISRIYKELKQI YEKKIKQPHQKVDERLLNLTT DRLTGEKAYRFIKVQVLRVTQ GMKIQRRARSKELQGDGDEIQR WKRLHSPRLLGEEPRIIFKLD SANDMHKSAPFSSLQSPLWHQP VMQEVERQYKEKKDLVREGG KCRCQGRPGKVVLTELSLEAR GGWMEDIPSRRTSKCGPWELV SHCVQNWWVLGLTDFKNEAS DPRGVKLQFTTVSVTALKAAAR LELLVLPGLLVVSLASGVKLQT FAVSVTAHKRSVDPKTEGAGS GLGQPRKGLSQCSSGPKG*YPE STKNLNKFTRKKSNNPIKRLMK
20396	50764	B	20513	1	531	
20397	50765	A	20514	1139	1562	GALQPTAALWEPLSGLAKARA GTLSLQGSVEGVA*AGTGAAC GACGPDGVPGGRLGGPRTGS SRPALSHFITEEDKDQRVQDQL GGVWHRMEIHEQHVGKQQUEE GDVEDHIPGEDHEGGGEERHIV PKQLLVLDVDRFLPK
20398	50766	A	20515	1	1597	
20399	50767	A	20516	461	1601	

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20400	50768	A	20517	1	914	MNNLRRAALRAVTLTAKVCSF TPEPARPQTHQKEETPNTSEHQ KEQTPDTPPLRTVTLTARVHGF LEVSETKNPPIPDTPATREAEG RSRLAVYSTRDSPCVACSGSYT QAQGS LGRKFQDPVSLFEDLTK NTPEPNLRPITSKPVLVQETLSN FALFLKESNGP\VKVWGS H\IKG LT*KALHGF\H V\H EFG\DN TAR LYQVQGP H\NPLSQKTTVGPK\ DEESH C*DLGQCDCLTKNGVA DVSI*RFCESSHSSGDH CIIG\RTL VVPWKKPDDFGQRVGNE\ESSK TGNAGKSVWPCGVNWIAQ
20401	50769	B	20518	8	173	
20402	50770	C	20519	13	180	
20403	50771	A	20520	3	486	VTETWKCAGIPHYRSFESC/IW NPVINSRMDYAGPVC FKNADI GRCAHEKLRED*DGAAPGEIGI QPEADATPYFATPTPVLTHGPC AAESEPAL LIGSKQFGLSRNSHI AIAFDDTKVKNRLTIELEVRTE AEFRLLFYMARINHADFATVQL RNGLPY
20404	50772	A	20521	1	459	
20405	50773	A	20522	2	239	SDSSGSREVD PVAATTMPGAA GVLLLLLLSGGLGGVQAQR PQ QQRQSQA HQQRGLFPAVLNLA SNALITT NATCGEKGPEMYCKL VEHVPGQPVRNPQCRICNQNSS NPNQRHPITNAIDGKNTWWQS PSIKNGIEYHYVTITLDLQQVFQ IA YVIVKAANSRPGNWILERSL DDV\EYKAWQ*H AVTDTEAL TP*PN*SPELGHRQNAQD*\EVI CTSFYSKIHPL ENGEIHISLINGR PSADDPSPELLE
20406	50774	A	20523	2	445	
20407	50775	A	20524	1	2765	MGRRRLLVWLC AVAALLSGA QARGTP\PW RGLR/LPGASRYSL YTTGWRPRLRPGPHKALCAYV VHRNVT CILQEGAESYVKA EY RQCRWGPKCPGT VTYRTVLRP KYKVG YKTVTDLAWRCCPGFT GKRCP EHLTDHGAAS PQLEPEP QIPSGQLDPGPRPPSY SRAAPSP HGRKG PGLFGERLERLEGDVQ RLAQTYGTLSGLVASHEDPNR MTGGPRAPAVPVGFGV IPEGLV GPGDRARGPLTPPLDEILS

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20408	50776	A	20525	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL
20409	50777	A	20526	1	1566	
20410	50778	A	20527	1	1604	MAILFEMRLGQQSSAKFPGFQS SFFPVIPVKNKPSGKFKRDRAHFS STRLLWPDCQISQLWGGYLRK KGSSPSQGLIDKTPSPWKKAPR ERGGCGRSFSRFKHPCLTALKR AADLPAQHSSSAKDTSQKGPTD TSYRRALAGIWQVPPLGRSFQK KDQAAIFAVVQPLQVIPRQTGS GVDLQQTSADWQQRGLTVRR KTNKQKGIACSLKDPIRGHQHQ RPKDHNFSPAREQNWTENEFD KLTEVGFRRWVITNSSELKKHV LTQCKDAKNLERSLEELLTRIPS VEKNINDLMELKNTARELREA YTSFNSPIDQAEERISVIEDQFN KINREDKIREKRIKRNKQSLQEI WDYVVRPNLQLIGVPESDKEN GTKLENTLQNIQENFPNLAREA NIQIEI\QRTQPQRYSLRRATPRH IISV\RFTKVEMKEK\MLKAVRE KGR\VTHKGKPIRLTTADLSAET LQARRQSGGQYFNIL*RKGFQPR R\ISYPAKLSFISEGEIKYFIDK\Q MLRDF\VTTRDWPALKEHQAC
20411	50779	A	20528	58	1081	SSMAKPC\GVRLSGEARKQVEV FRQNLFQEAIEFLLR\FLPQKII Y\LNPA SFQEDFPFNVA*/LLNLS SGAPLGHPPIRPLHPKDDME TDKAGRRKEVP*SVGFFPWGN* GKFLASLVCPLKPE\WDFSKR NCILGDLHWIQTDPSPRFEDGN DFGGSQSRKKVLEKG*MPVKT KVEAF\QTTISKY/FSSERGDAC GPRPPKETHVMDYRALVHERD EAAYGELRAMVLDLRAFYAEI VKSSGIGAHVSFKVQNIHSSYC SGPTVSPCTCVTGLPASQSPDSG AQLASSSGSHTCAAGGAACQS RALRLHSSALGWSMGLGTVEQ GAALIEEVQAAQEPTEG

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20412	50780	A	20529	1632	1932	KEGCELCRCCCRPGPPASSHGQ PHHVFPF/VLSMASPWAVSPSS VNVSQFFIC/TCQDAKTEWLDC KHVVFGKVKDGMNIVEVMEH LGSKNGKISNQQEDHHC
20413	50781	A	20530	245	740	GAWKARSDCSSNP*NYVNRLE LFADKVPKTAKEF\QALSTGEK GFGYKGS\AFHRIIPGF\TCQSGD FTRPYSIGGKSHLPGRNLMTRT FILKHTGPGILSMANAGPSVNV SQFF\CPAKMPRTEWLDCKHV VFGKVKDGMNIVEVMEHLGSK NGKISNQQEDHHC
20414	50782	A	20531	135	1427	GKPTFASRQQPLAECEPASSAL QRRWLWRWRWWLRRRRRQR RSSGSCQGPAGPLGGPPANRG AAPQGSAMNYNNAKDEV DGG PPCAPGGTAKTRRPDNTAFKQQ RLPAWQPILTAGTVLPIFFIIGLI FIPIGIGIFVTSNNIREIEIDYTG EPSSPCNKCLSPDVTPCFCTINF TLEKSFEGNVFMYGLSNFYQ NHRRYVKSRDDSQLNGDSSAL LNPSKECEPYRRNEDKPIAPCG AIANSMFNDTLELFLIGNDSYPI PIALKKKGIAWWTDKNVKFRN PPGGDNLEERFKGTTPVNW KPVYMLDSDPDA*WIHK\DDFI VWMRTAALPTFRKLNRLIQRK SDLHPTLPAGRYSLNV\NAYYP VHYFDARKRMIMSAISWMGGK NPFLGMAYFAVGAI SFHLGVAL LGINHKYRNSNTADITI
20415	50783	A	20532	1	370	
20416	50784	A	20533	1	1104	LREFANFDFDIWRKKYMRWM NHKKSVMDFRRIDKDQDQK ITRQEFIDGILSSKFPTSRLMSA VADIFDRDGDGYIDYYEFVAAL HPNKDAYKPITDADKIEDEVTR QVAKCKCAKRFQVEQIGDNKY RFGDSQQRLRLVRILRSTVMVRV GGGWMALDEFLVKNDPCRAK GRTNMELREKFILADGASQGM AAFRPRGRRSRPSSRGASPNRST SVSSQAAQAA\SPQVPATTPK GTPIQGSKLRLPGYLSGKGFHS GEDSGLITTAARVRTQF\ADS KEGLPSRPGSSSLEAKFGSR\AS SRRGSDASDFDISEIQSVCS DVE TVPQTHRPTPRAGSRPSTAKPS KIPTPQRKSPASKLDKSSKR

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20417	50785	B	20534	527	4627	
20418	50786	A	20535	37	315	
20419	50787	A	20536	1314	1577	HGSGSAPTCRWPRTOGRCREIC ADGFSGVMRNCTG*EAASGR* CKSFVHVYLQLRCACSVCHSA GSDSFQLQRSPTHTPSTCTHALV
20420	50788	A	20537	1	1652	MQATKTESGRNGKPGQPSNRC HYLLNQGWVANSGKGGRTNIP DKELKSGDDPENVHITSFYLA LAAFPRGRARDLQLAMTEPPHP SVGSCAARASLTSAAPCSTAPSP INHPKAECEGCTARDWQAAPP AARVRDPLGEASWAPSEYVC NCSVVGSLNVNRCNQTTGQCE CRPGYQGLHCETCKEGFYLN TSGLCQPCDCSPHGALSIPCNSS GKCQCKVGVIGSICDRCQDGY YGFSKNGCLPCQCNNRSARCD ALTGACLNCHENSKGNHCEEC KEGFYHSPDATKECLRCPCSAV TSTGSCSIKSSELEPECDCEDG YISPNCNKCENGYYNFDSICRK CQCHGHVYLISTPKICKPESGEC INCLHNTTGFWCENCL*GYVH DLEGNCIKKEVILPTPEGSTILVS NASLTTSVPTPVINSTFTPTTL* TIFSVSTSENSTALADVSWTQF NIIILTVIIIGVVLLMGFEGAGY MYRENQNRKLNAPFWTIELKE DNISFSSYHDSIPNADVSGLVED DGNEVAPNGQMTLTTPIHNYK
20421	50789	A	20538	1	177	
20422	50790	A	20539	1	480	
20423	50791	A	20540	410	896	FSCLKRMHIKAMPEDAKGQDW IALVKAAAAAAKNKTGSKPR TSANSNKDKDKDERKWFKVPS KKEETSTCIATPDVEKKEDLPTS \\SETFGLHVENVPKMVFPPPEST LSNKRKNNQGNFSQAKRARLN KITGLLASKAVGVDGAEEKED YNETAPMLEQV

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20424	50792	A	20541	1	1526	LKDEEDFFDFKAGEEVLARWT DCRYYPKIEAINKEGTFVQF YDGVIRCLKRMHIKAMPEDAK GQVKSQHPLSWCCPIDPAGSCN QSMGSEDWIALVKAAAAAAA KNKTGSKPRTSANSNKDKDKD ERKWFKVPSKKEETFNLLLATP DVE/RRKEDLPTSS/EKHL*GLH VRRNVPKMVFPQPESTLSNKRK NNQGNS\FQAKRARLNKITGLL ASKAVGVDGAEEKEDYNETVA PMLEQA\ISPKPQSQKKNEADIS SSANTQKPALLSSTLSSGKARS KKCKHESGDSSGCIKPPKSPLSP ELIQ\VEDLTLVSQLSSSVINKTS PPQPVNPPRPF\KH\SERRRRSQR LGTLP\MPDDSVKVVSSPLSSPL D/EGKVFS/LSSSSKISQESSS/IPE VPDVA/HICPLEKLGPCLP\LDLS RGSEVTAPVAS\SSYRNECPRA EKEDTQMLPNPSSKAIADGRGA PAAAGISKTEKKVKLEDKSSTA FGIRSWDFSALLMKIPSYSPISLS GLPES
20425	50793	A	20542	363	1187	FHITMCGICCSVNFSAEHFSQDL KEDLLYNLQKRGPNSSKQLLKS DVNYQCLFSAHVLHLRGVLT QPVEDERGNVFLWNGEIFSGIK VEAEENDTQILFNYLSSCKNES EILSLFSEVQGPWAFIYYQASS HYLWFGRDFFGRRSLLWHFSN LGKSFCLSSVGHPIWNWQISG KKFQHLDFRIDLKSTVISRCIIL QLYPWKYISRENIIEENVNSLSQ ISADLPAFVSVGSQMEGQTVSL EKPVVPLNMDVATSWHWETH AVFFPCATYR

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20426	50794	A	20543	1140	2372	CCHKLHWRLIAVIFPMCHLQER YFKSFLLMYT*KEVIQQFIDVLS VAVKKRVLCLPRDENLDSQME VLENV**GKANVGNPVFWGGL D/CPWLLATLLDRHIPLDEPLVL LNVAFAIEEKTMPPTTFNREGNK QKNKCEIPYPKNFSKDVA ADSPNKTCQCAPDRITGRAGLK ELQAVSPSRIWNFVEINVS MEE LQKLRRTRICHLIRPLD TVLDDS IGCAVWFASRGIGWL VAQEGV KSYQSNAKVVLTGIGCR WSNL QGYSPSSVSFAFKSHGL GRIGIKE IMMELGRISSEILGR DDRIVIG DHGKEARFPFLG*/ RMLSPFLNS SARFGEKANLDFT PRGIGEKLPF NALQPVELG LTASALLPKRAM QVFGSRIAK MEKINEKASDKCG RLQIM SLENLSIEKGTKL
20427	50795	B	20544	70	464	
20428	50796	A	20545	18	552	
20429	50797	A	20546	1	1257	
20430	50798	B	20547	223	342	
20431	50799	A	20548	9	5293	KIHRHRLSPATEKGAASSGEGD KDPPPPAHEDIAVKGTATAAGT GPGTGAAAAAAAAAAVPPHPNI RALQTQAPQQIPRGVPVQQPLED RIFTPAVSAVYSTVTQVARQPG TPTSPYSAHEINKGHPNLAATP PGHASSPGLSQTTPYPSGQNAGP TTLVYPQTPQTMNSQPQTRSPF FPKGLKIQPPARATIPNSKSFPFV PGAQTPTAVYQG*FRHIMMV NHLPLPYPVPQGPQYCIPQYRH SGPPYVGPPQ
20432	50800	A	20549	1	78	
20433	50801	A	20550	1	2805	MAKGFYISKSLGILGILLGVAA VCTIIALSVVYSQEKNKNANSS PVASTTPSASATTNPASATTL D QSKAWNRYRLPNTLKPDSYRV TLRPYLTPNDRGLYVFKGSSTV RFTCKEATDVIIHSHKKNLTLS/ QGHRVVL RPPDIDKTELVEPTE YLVVHLKGS LVKDSQYEMDSE FEGELADDLAGFYRSEYMEGN VRKV VATTQMQAADARKSFPC FDEPAMKA EFNITLIHPKDLTAL SNMLPKGPSTPLP
20434	50802	A	20551	1	239	
20435	50803	A	20552	1	654	

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20436	50804	A	20553	161	3193	GSL SRLPTITMAKGFYISKSLGI LGILLGVA AVCTIIALS VVYSQE KNKNANSSPVASTTPSASATTN PASATTL DQSKA WNR YRLPNT LKPDSYQVTLRPYLTPNDRGLY VFKGSSTVRFTCKEATDVIIIHS KKLNFP\LSQGH RVVLRGVGGS QPPDIDKTELVEPTEYLVVHLK GSLVKDSQYEMDSEFEGELAD DLAGFYRSEYMEGNVRKV VVAT TQMQAADARKSFPCFDEPAMK ARF\NITLIPPQGT
20437	50805	A	20554	3	429	
20438	50806	A	20555	3568	4012	VLSTSPFGTELNPPISPLAVNSTE LLKGELSLSSLGVLSLSDTSVPN SVSNSFLLGLRRLGRGVGISCS NALSALDLAACNFSLMRPLME NSAKPVLEVEGIGG/TAFDAGA GIALSDHFIKLISWYDNEFGYSN RVVDLMAHMASKE
20439	50807	A	20556	1	1211	QTAASSFASPGEPHRSNTMGKV KALVNGFDRIGRLVTRAAFNSG KGDIVAINDPFIDLNYMVYMFQ YDSTHGKFHGTVKAENGKLV NGNPITIFQ\ERDPSKIKWG*H\G AEYVV\ESTG\VF TTM EKAGAH FAGGSQKGHSSFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTV DGPCKLRPD GHRALQNIIPASTSTAKAMVKV IPELNK KLTGMASHVPTAKVLV VDPTCH/LGKPAKY YDIKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VK\ LISWYDNEFGYSNSVVDLM AHVASKELSGYSLKVSFAVQK LFSLIRS NLSIAFDAIVFGVFVM KSLPV SICRM
20440	50808	A	20557	1	300	PTANVSVDLTCL* KPAKYD DIKKVVKQASEGPLKGILGYTE HQVVSSDFNSDTHSSTFDAGAG IALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
20441	50809	A	20558	1	3399	
20442	50810	A	20559	1	3126	
20443	50811	C	20560	298	435	
20444	50812	A	20561	1	888	
20445	50813	B	20562	1	4536	

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20446	50814	A	20563	37	3900	LGLGLSMLVGQGAGPLGPAVV TAAVVLLLSGVGPAHGSEDIVV GCGGFVKSDVEINYSLEIKLYT KHGTLKYQTDCAPNNGYFMIP LYDKGDFILKIEPPLGWSFEPTT VELHVDGVSDICTKGGDINFVF TGFSVNGKVLSKGQPLGPAGV QVSLRNTGTEAKIQATATQPG GKFAFFKVLPGDYEILATHPTW ALKEASTTVSVTNSNANAASPL IVAGYNVSGSVRSDDGPEMKGV KFLLFSSLVTKED\A
20447	50815	A	20564	1	310	EEETVPTTAGASPGPPRNKKNR ELRPQRPKNAYILKKSRIKKPQ VPKKPREWKNPESAAAS*GGE GQAHHGPAICPGQICALSQTPG LPGNSLSPRSPVGK
20448	50816	A	20565	3	267	
20449	50817	B	20566	267	560	
20450	50818	A	20567	1	429	LIGLDPEPLAEVDVISLEQGRRK QIERLGYPDQAKAPFQPKPKQK GRSSTASLVKRKRKVMDEE\NR VK*TIGNGPGLPKGCTLPACAL CPCQPAHFLTLCVSLPSPVPQD KVRQSLQQQHHKEAK/APKPTG ARPSALDRFVR

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20451	50819	A	20568	2	1951	FKPTVWQLRGVLHVDRLFVWA SMETAPKPGKDVLSKKDKLQT KRKKP\RRYWEEETVPTTAGAS PGPPRNKKNRELRPQRPKNAYI LKKSRISSKKPQVPKKPREWKNP ESQRGLSGAQDPFPGPAPVPVE VVQKFCRIDKSRKLPKSKAKTR SRLEVAEAEETSIQSLLRSEL LLAEEP\GFLEGEDGEDTAKICQ ADIVEAVDIASAAKHFDLNLRQ FGPYRLNYSRTGRHLAFGGRRG HVAALDWVTKKLMCEINVME AVRDIRFLHSEALLAVAQNRW LHIYDNQGIELHCIRRCRDRTRL EFLPFHLLDASETGFLTYLDV SVGKIVAALNARAG\RLDVMSQ NPYN\VIHIGHNSNG\TASLWESS YGREPLAK\ILC\HRGLGSGAVA \VDSYRHVTWATSGP*DHQLED LDFARGRY\QPLEHSGPCPMG AGHLAFSQRELL/VLAGLGDVV NIWAGQGKASPP\SLDRPYFTH RV*GPVHGLQFCPFEDVLGVG HT*G\ITSML\VPGAGEPNFDGL\ ESNP\YRSRKQRQ\EWVKALL EKVPAELICLDPRALAEVDVISL ETGKRRKQIERLGYDPQ\AKAP F\QPKPKQKGRSSKA\TLVKRK RKVMIEDHKG/DKVRQSLQQQ HHKEAK\AKPTG\ARPSALDRF
20452	50820	A	20569	1	437	
20453	50821	A	20570	157	425	

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20454	50822	A	20571	207	1562	LVIVFFYPQHTAPGPPLTVLNQ AMHARGPHGQLSPALPLASSVL MLLMNLAHLGQPWMLGPLTW HISPFSLPVHRLLTHALGHTALP GLLLSLLLPTVGWQQECHLGT LRFLHASALLALASGLLAVLLA GLGLSSAAGSCGYMPVHLAML AGEGHRPRRPRGALPPWLSPW LLLALTPLLSSEPPFLQLLCGLL AGLACILCLSPGPVGMCGFCG WVPGKEVAQRGEGPSNTKEPC THIAWPVAWAHPWLLLVLDR PPCPGQTDAAGAFRWLEPSERR LQVLQEGVLCRTLAG\GMPVQ VVGTVAGLPVRPSSLP/SSSRPPI PGPPYVASPDLWSHWEDSALPP PSLRPVQPTWEGSSEAGLDWA GASFSPGTPMWAALDEQMLQE GIQASEVGSPGIGAGVALTLPTS PPTPNRLQQLERMGFTEQAVV ALAATGRVEGAVSLLVGGQ
20455	50823	A	20572	460	916	AHSPRDHPWTVLNQAMHARGP \HGQ\SPALPL\ASSVLMMLMST LWLVGAGPGLVLAPELLLDPW QVHRLLTHALGHTALPGL\LLS LLLLPTVGWQQECHLGTLRFLH ASALLALASGLLAVLLAGLGLS SAAGSCGYMPVHLAMLAGEG HRPRRPRGALPPWLSPWLLLAL TPLLSSEPPFLQLLCGLLAGLAY AAGAFRWLEPSERRLQV\LQEG VLCRTLAGCWPLRLLATPGSLA ELPVTHPAGVRPPIPGPPYVASP DLWSHWEDSALPPPSLRPVQPT WEGSSEAGLDWAGASFSPGTP MWAALDEQMLQEGIQ\SL\LD GPAQEPQSAPWLS\KSSVS*MR LQQLERMGFPTTEAAVVALA\ ATGRVEGA\VSLLVGGQSGTET LVTHGKGGPAHSEGP\GPPWAN CPQHCLLASSVLMMLMSTLWL VGAGPGLVLAPELLLDPWQVH RLLTHALGHTALPGLAPEPAAP AHCGLAAGVPPGHAEIPACLS ARPGFWAAGSAAGRPWAVQCS RQLWIHACPPGHAGWGRTTP
20456	50824	A	20573	174	401	CTVVFSVLAELSCTSRFCPNMW TPLREPMTENGRWGLSVRVLE HGGNQSNSACGPEPPEGEMGS* LEED*LPALIP

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20457	50825	A	20574	450	1029	ATQLPPQPWQTPAALGWAAAT SLMPYRAPSPPARAQHPPALCL APPPPLWLQLPHLEASHSLVEA RPNPPVSTLAQQGIQPSRHLPR CPSLRPRQQPPQQVP/PQPAAPT PTATITSTGPSLFASIATAPTSSA TTGLSLCTPVTTAGAPTAGTQG FSLKAPGAA\APPQQHPLPPP PPPPPPAAAPPALP
20458	50826	C	20575	115	276	
20459	50827	A	20576	3	307	ASRLGPREGGARKNPGGPCSAT QYISVPSPGAASFVVLGSQSLLT TVSPPLPA*/LAMAL*PRPLCA PGSPSRSPRLRSPLPSSFSGRR RLSLLQPWSE
20460	50828	A	20577	2	388	
20461	50829	C	20578	244	487	
20462	50830	B	20579	5	569	
20463	50831	A	20580	204	676	RTDQYPQRGETEELEGQLLPH RQLPGGLGAHRGPDACGLRD SSRGVPLAGSPLRVR*GRGHD RQSGGVRPGGGSNRGLVVAGD ARGRAAPLAGGVPAADRSL PGVPAAREPHGPTAPDPDSAA EPGAVSTLRAEPTQPVVSTGC CSSTWN
20464	50832	B	20581	1	1413	
20465	50833	B	20582	60	224	
20466	50834	B	20583	8	2469	
20467	50835	A	20584	841	1436	HHQVPLPVGRERGGKRGPGSW ETCLSVLGPAPPSEPWPVSPSW VHSLVPGEQALPLICSQPPMAP QWPETGPGPHLVHRTCRVCLN WQGMTRTRGYQAGPSSRRTIPT PAQLPAPLASLPPRQDPPSSPAE PPSGRFSMEPWWEARHPPGSP AAPCSSHRIT/APPTPSLAAQPG/ PVGSNPPLSPEGLCLAGTPACG W
20468	50836	A	20585	1799	5195	SKGNNGSPSTTQTQTPRAAPDGS LSEETPAGPPTCSVPASALPRQ QYAKSLPVSVPVWGFKEKRTE ARSSDEENGPKPKPASVDANTK LTRSLPCQGLKRATSCERAGK AVGEEVSGYSLHGCSKERRRRP RLKKEGGSGEPGVGYLFISVLV NSNSELIRLINNAIKNDLASRNP TFMCLALHCIANVGSREMGEA FAADIPRILVAGDSMDSVKQSA ALCLRLLYKASPDLVPMGEWT ARVVHLLNDQHMGV

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20469	50837	A	20586	8	268	SRSSRTWSPPIPEKEKTKLQKQR EDELQKIHKLVQKRDFLVDDA EVERLREQEEDKEMADFLRIKL KPLDKVTKSPPI*QSQRAHL
20470	50838	C	20587	50	196	
20471	50839	A	20588	16	1263	SLSSRCMMVAEQGCALEPCQG LSHGAALGVLMVVFP/VSSLQQ DQLDIIS\MAETT\MMP\EEIELE MAKIQRLREVLVRRESELRFMS FEEQYNEDHKKGVLDLFTADSL KTMTRLVTGVWLAATASN PLQEGEHAGEQIGAGGCRSRLE GGALTWDPVLLPPVRISRMLLL LLIPGELPGIAFKLMNPTKAEPM HMFIILEPFDLRKLMDDIQLCK DIMDLKQELQNLVAIPGCTRSM MLVSAQLLEGLRKLIIAEDKG ADMSRAQSRKRPPKMLICLLV DVFFPEKEKTKL\QKQREG*AN PRRFHKL VQKRDFLV\DDAEVE RLR\EQE\EDKEMADFLRIK\VKP LDKVTKSPASSRAEKKAEPPI\S KPTVAKTGLALIKDCCGATQC NIHVSPHVGCPCGPWGPPTLLS
20472	50840	A	20589	31	339	
20473	50841	A	20590	1	1179	
20474	50842	A	20591	1	1167	PARSMAATSLMSALAARLLQP AHSCSLRLRPFHLAAV/RGNLSL GQVGVQCCNHGLLQP*PPGLK* SSHLSLNEAVVISGRKLAQQIK QEVQRQVEEWVASGNKRPHLS VILVGENPASHSYVLNKTRAAA VVGINSETIMKPASISE\EELLNL INKL\NDDNVDGLLVQLPLPE HIDERRICNAVSPDKDVDGFHV INVGRMCLDQYSMLPATPWGV WEIIKRTGIPTLGKNV VVAGRS KNVGMPIAMLLHTDGAHERPG GDATVTISHRYTPKEQLKKHTI LADIVISAAGIPNLITADMIKEG AAVIDVGINRVHDPVTAGVPGL VGNVDFEGVRQKAGYITPVPG GVGPMTVAMLMKNTIIAAKKG AEA*RSEKVLKSKELGVATN

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20475	50843	A	20592	1	1963	MAASDVNCGACFAELQGNATA NTPGGTSHHHLAIHGSCDHSQ AKEAGRKRQWPWPPDGRSEPAP DSHPHLSPEALGYFRRALSALK EAPETGEERDLMVHNIMKEVE TQALALSTNRTGSEMLQELLGF SPLKPLCRVWAALRSNLRTVAC HRCGVHVLQSALLQLPRLGSA AEEEEEEEDGKDGPTELEEL VLGLAAEVCDDFLVYCGDTHG SFVVRTLLQVLGGTILESERARP RGSQSSEAQKTPAQECKPADFE VPETFLNRLQDLSSSLFKDIAVF ITDKISSFCLQVALQVLHRKLA QFCAHICNAVIGYLSARGSSVD GKPLLLFLRDQTSFRLLEQVLL VLEPPRLQSLFEEHLQGGQLQTL AAHPIANFPLQRLDAVTTPEL LSPVFEELSPVLEAVLAQGHGP VVIALVGACRRVGAYQAKVLQ LLLEAFHCAEPSSRQVACVPLF ATLMAYEVYYGLTEEGAVPA EHQVAMAAARALGDVTVLGSL LLQHLLHFSTPGLVLRSLGALT GPQLLSLAQSPAGSHVLDAILTS PSVTSPSCAAVCLQNLKGTNIVA LACKSP*QPRVLKCHLEWSSLE GP/RRKIAAELGEQNQELAKEPP FGHHVARNVALTTFLKRREAW EQQQGAVAKRRRALNSILED
20476	50844	A	20593	55	393	
20477	50845	A	20594	150	379	

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20478	50846	A	20595	1	2408	MGVWGIRTPFMVVGLESPVGS SPRGQGSCVRLPQRRPDKSHAG ARTGPETLRERAQQSNKLPEW AEKGSHPARWSPNRGGRWTLT TARERRPSRALKARAAGRRQA KVADFRLPAAAPPEGAAQLRLE SERLPHQDEKEPSSYRGSCGSCP VTLRKMPYLGSEDVVKELKKA LCNPHIQADRLRYRNVIQRVIR YMTQGLDMSGVFMEMVKASA TVDIVQKKLVLYMCTYAPLK PDLALLAINTLCKDCSDPNPMV RGLALRSMCSLRMSKLDQWQG AEVLNFLRLRYQPRSEELFDILN LLDSFLKSSSPGVVMGATKFLFI LAKMFPHVQTDVLVRVKGPLL AACSSERELCFVALCHVRQIL HSLPGHFSSHYKKFFCSYSEPH YIKLQKVEVLCELVDENVQQ VLEELRGYCTDVSADFAQAAIF AIGGIARTYTDQCVQILTELLGL RQEHITTVVVQTFRDVWLCPQ CTEAVCQALPGCEENIQDSEGK QALIWLLGVHGERIPNAPYVLE DFVENVKSETFPAVKMELLTAL LRLFLSRPAECQDMLGRLLYYC IEEEKDMAVRDRGLFYRLLLV GIDEVKRILCSPKSDPTLGLLAED PAERPVNWSWDFNTLVPVYG KAHWATISKCQGAERCDPKLP KTSSFAASGPLIPEENKERVQEL PDSGALMLVPNRQLTADYFEK
20479	50847	B	20596	330	2458	
20480	50848	A	20597	2	171	
20481	50849	A	20598	32	1040	LQLAKLGDWRMQUALRHVHCR FTEG*FMYSL*LTFPAGYQVT GVFMKNWDSLDEHGVCTAD K\DCEDA\YRVCQILADIPFHQV SYGTEVIFFYSSDFLNEYEKGR PNPDIVCNKHIKFSS*SLCSKNL TGADAIATGHYARTSLEDEEVF EQKHVKKPEGPASWRNCLSVG WFLYTLGQRANIGGLREPWYV VEASPPSHSILQAPRTDHPALYR DLLRTSRVHWIAEPPAALVRD KMMECPPPRAPLFYPVPCVLT NQDGTWVWTAVTPDARVSPLQ FAVFYKGDECLSGSKILRLGPS AYTLQKGQRRAGMATESPSDS PEDGPGLSPLL
20482	50850	A	20599	12	432	

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20483	50851	A	20600	2	509	RLHSLLDYDYQAIVLENIDLS TKSMYSRVPECQVTTYVVG AYSMRCYQDAIRVFASILLYI HRTNSMFQRTKYKYEMIIMLN EQMHALLAIALTMYPMRI\DESI YLHLREKYVDKMLRMQNGDL QVYEELFRYSCTKFL*PVPPNY DTVHAHYHTESFLQSLRR
20484	50852	B	20601	8	1188	
20485	50853	A	20602	1	257	
20486	50854	B	20603	210	312	
20487	50855	C	20604	49	288	
20488	50856	A	20605	13	446	IPVRPTRPADDYESEAAYPDYA YPSDYDMHTGDPKQDLAYERQ YEQQTYQVIPEVIKNFIQYFHKT VSDLIDQKVYELQASRVSSDVI DQKVYEIQDIYEN\DAVFLILYK ELYRHIYAKVSFQSFQYRCK TAKKSEEEIDFL
20489	50857	B	20606	77	611	
20490	50858	A	20607	1	1956	SLVDPRVRPRVRLASEAAMS YPAD\DYESEAAYPDYA\YPSD YDMHTGDPKQ\DLAYE\RQYEQ \QTYQVIPEVIKNFIQYFHKTVS DLIDQK\VDELQASPCQLQVIVID QERLYEDSRTIY*EQA\WTKL\TE RFF\KNTPWPGGWKPLVPQGLA MDA\VSFLDFYPKNYTYRHIYA KVSGGPSLAEQRFESYYNYCNL FNYILNADGSRSPNYPNQW\W WGYL\SMEFIYPVFSHF\SQYRW *DLPPKSEEE\DFLRSNPKIW\N VHSV\NLV\HSLVDKSNINRQL GGYTQACGDP*ECGWGSMGR HSLYMM\LHYFSLVR/GFSRLHS LLG\DYDYQAIVLENIENKKS MYSRVPRVPRSPITY\YVGFAY LMMRRY\QDAIRVFANILLYIQ RTKSMF\QRT\TYKYEMI\NKQIE QMHAL\LAIALTMYPMRI\DESI HLQLREKYG\DK\MLRMQK\GD PQVYE*LF\SYSCP\RFLAA\VP TYDNVHPN\YHKEP\FLQ\QLKG VFLDEVQ\QQGPAFKPIRSFLKL\ YTTHALLAKPGLASLDPHRGRE FRDPRFLCLSNHQQ*RN\VLGP AGISSPWIGEISVSPQRVDLPTL NKDMIPHRGTPKVPQAVMGDF LHPVRSHKFGGA*SEPLKEGWG QRPWMIFTTHFREPVFDVIIGQG
20491	50859	A	20608	2	413	

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20492	50860	A	20609	232	621	
20493	50861	A	20610	1	3590	MAPRKRGGRGISFIFCCFRNND HPEITYRLRNDNMFALQTMPEA LPMPPVEELDVMFSELVDELDL TDKHREAMFALPAEKKWQIYC SKKKDQEENKGATSWPEFYID QLNSMAAGILEGVFVHIVITHC LQNQQQLLHDKQGNRHFIICL RSHQHPMLPACSNVHLSSFDRK TLCKDALCPLPASHVSRYLKRS LLALEKEEESEERSKTIESLKTAL RTKPMRFVTRFIDLGLSCILNF LKTMDYETSESRIH
20494	50862	A	20611	203	3480	SHQEIEQNSAMAPRKRGGVGI AFIFCCLRNNDHPEITYRLRNDN MFALQTMPEALPMPPVEELDV MFSELVDEL\DLDPKHREAMFA LPAEKKWQIYCSKKKDQENK GATSWPEFYIDQLNSMAARKSL LALEKEEESEERSKTIESLKTALR TKPMRFVTRFIDLGLSCILNFL KTMDYETSESRIHTSLIGCIKAL MNNSQGRAHVLAHSESINVIAQ SLSTENIKTKVAVLEILGAVCLV PGGHKKVLQA
20495	50863	A	20612	1	338	PGGALRVPDAPAGAEGQELCR SDFPVGGAGVGDEEGVQCPAP AAHRDDTDLRGAH*EVQDAAG RRKQPDREQPAGAEEGAPHLPE RVPPG*RHGTCTDRGQARACG GPLAPE
20496	50864	B	20613	610	6429	
20497	50865	B	20614	28	280	

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20498	50866	A	20615	160	1397	VKMSAQESCLRLIKDFLFVFNLF FFFALGSLIFCFGIWILIDKTSFL SFVGL/AAFVPLQIWSKVLAIS GNLSPWGIALLGLCWGALKVEL RCLLG\LYFG\MLLLLFATQITLE KSSSSNQRAQLERSLR\DVVGK TI\QKYGINPEETAPEEN\WDYV QSNLRWCGWHYGRDWFKVFIL RGNGSEAH\RVTRS*YNFMAT* NSTILNKVIVHQLTRLEHLARSR HSAD\ICAVPAESHITRKG\CAQ GIQK\WLHNTLIFP*WAICLGVG LLE\LGFM\TSLNIPVEETVDHGL PTGSARYRLGPAPPQSRAPPVVS VRWALPVLVPVNICLIPRLAVEPS GVHISPGD\TTLWRAPAAVTSPT GPGAFVHSFLSPSVGLPPPTRLF FTQTSNKPPAFLVNDHKKGGRS KKALEGPNVTRA
20499	50867	A	20616	290	492	
20500	50868	A	20617	1164	2134	NNYNHHHHHHHHHHHDYYNHH/ HHYHHHHHHHHHNYNHHHHHDH HHNYKHHHHHHYHQHHHNYNH HHHHHHSYNHHHHHHHHHHN YNHYHHHHHHHHHHHREYHH HH/HHHHYHHHHHHHNYNYHH HYHHHHHQHYHHNHHHHNHH YNHHYHHNQYHYHHYHHHD YYHHH/HYHHHNYYYLYNRYH HYHHYHQSNNHYRHHHHHHQY HHN/HEPFA/HHT*ILFCS*KQDR NLHCAWPFFFPFNCHHHCHH HHQQQQHSGVKTKQSRPESLLP ERCYILHQKHHPLHRPGAPQHQ KTASWRGQAREAAGSSPGSLSS HTADHEVEAFKRCFYSRF
20501	50869	B	20618	164	1526	
20502	50870	A	20619	1	762	

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20503	50871	A	20620	69	1054	AISCHVVHAGHQQTQITGNDPF PVVTYSKGP NLQSSRSDMDDST EREQSRLTSC LKKREEMKLKEC VSILPRKESPSVRSYKDGKLLA ATLLLALHACCLTEVSFYQVAA LQGD L ASLRAELQGHHA EKLP AGAGAPKAGLGGSSSCSPRDLK IF*TTSSREKAIP/GSEQQK*GVP FQGPEETVTQDCLQLIADSETPT IQKGSYTFVPWLLSFKRGSAL E EKENKILVKETGYFFIYGQVLY TDKTY\AMGH LIQRKKVHVFG DELS\LVTLFR\CIQNMPETLPNN SCYSAGIAKLEEGDELQLAIPRE NAQISLDGDVTFFGALKLL
20504	50872	A	20621	3	855	LQNSHGHTMIR TLLLSTLVAGA LSCGDPTYP PYVTRVVGGEAR PNSWPWQVSLQYSSNGK WYHT CGGSLIANSWVLT A\AHCIS S\ R TYRVGLGRHNL YV A\ESGSLA/ MSSVSKIVVHKD\WNFNQISKG\ NDI\ALLKLANPVSLTDKIQ\LA\ CFPPAGTILPN\NY\PC*VTGLGE SCR TNG\AVPDVL\QQGR\LLAV DYATCS\SSA\WWGSSVKTSMIC A\GGDGVISSCNGDSGGPLNCQ A\SDALWQVHGIVSFGSRLGCN YYHKPSVFTRVSNYIDWINSVI AYN
20505	50873	A	20622	19	414	SVCWEDRYLKARMEESPLSRA PSRGGVNFLNVARTYIPNTKVE CHYTLP PGTMPSASDWIGIFKP/ GYLPKPGAQLYQFRYVNRQQQ VCGQSPPFQFREPRPMDELVT L EEADGGSDILLVVPKATVLQNQ
20506	50874	A	20623	1	393	AKSWQEEQSAQAQRLKDKVA QMKDTLGQAQQRVVSEAPWQ QETGNSKGKL*RSLRV*REGER HG*RLNNTTPSPNAVEWRER/IT SLADE*FTRNCDLHLLLSPEAEL EPLKEQLRGAQELAASSQQKAT LY
20507	50875	A	20624	56	416	NRPLLALVASDTQPLHTHTHTH TPLSDAPKPIPGA/HLP/CSYLEF PLTSVPHPSLFHNLRYSVWRGF LYF*GFLYSVSSPRISSHGKK*CI CAFCEEWGEQVVP GIPISKAPLP LQVPPQQ
20508	50876	A	20625	115	392	
20509	50877	B	20626	1	3388	

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20510	50878	A	20627	3	1889	SSPREKTSDDSHRPSRHGFLFLR LVGLSPFSYLCVPPSRPVPGSPR SLSAMRLLPLAPGRLRRGSPRH LPSCSPALLLLVLGGCLGVFGV AAGTRRPNVVLLLTDDQDEVL GGMTPLKKTKALIGEMGMTFS SAYVPSALCCPSRASILTGKYPH NHHVVNNTLEGNCSSKSWQKI QEPNTFPAILRSMCGYQTFFCR GNI*MKYGAP\DAGG\LG\HVPL GLGVTWYALEKNS\KYNYTL FYSMGKARKHGENY\SVDYLT DVLANVSLDF\LDYKSNF*PFF MMIATPAPHSPWTAAPQYQKA FQNVFAPRNKNFNHGTNKH LIRQAKTPMTNSSIQFLDNAFR KRWQTLLSVDDLVEKLVKRLE FTGELNNTYIFYTSDNGYHTGQ FSLPIDKRQLYEFDIKVPLLVRG PGIKPNQTSKMLVANIDLGPIL DIAGYDLNKTQMDGMSLLPILR GASNLTWRSDVLVEYQGEGRN VTDPTCPSLSPGVSCFPDCVCE DAYNNTYACVRTMSALWNLQ YCEFDDQEVFVEVYNLTADPD QITNIAKTFDP\ELLGKMNYRL MMLQSCSGPTCPTPGVFDPGY RFDPRLMF\SNRGSVRTRRFSQT SSCSDPHTASADGSLHALFLMK
20511	50879	A	20628	132	253	
20512	50880	A	20629	1	1269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20513	50881	A	20630	1	1920	MDEAEFSSFVVRTNTCGELRSS HLGQEVTLCGWIQYRRQNTFL VLRDFDGLVQVIIPQDEVLENFL LLSKSFFDAIAGSAASVKKILCE APVESVVQVSGTVISRPAGQEN PKMPTGEIEIKVKTAELLNACK KLPFEIKNFVKKTEALRLQYRY LDLRSFQM QYNLRLRSQMVMK MREYLCNLHGFVDIETPTLFKR TPGGAKEFLVPSREPGKFYSLP QSPQQFKQLLMVGGILDYFQV ARCYRDEGSRPDRQPEFTQIDIE MSFVDQTGIQSLIEGLLQYSWP NDKDPVVVPFPTMTFAEV\RPP YGTDKPDTRFGMKIIDISDVFR NTEIGFLQDALSKPHGTVKAICI PEGAKYLKRKDIGSIRNFAADH FNQEILPVFLNANRNWNSPVAN FIMESQRLELIRLMETQEEDVV LLTAGEHNKACSLGK\LRGTN VAGPSRKQEGVVL RDPTLFSFL WVVD FPLFPGQRRKIQESWDR GQHPFTAPHPR*ITLLYTEPKK ARSQHYDLVLNGNEIGGGSIRI HNAELQRYILATLLKEDVKMLS HLLQALDYGA\PPHGGIALGLD RLICLV TGSPSIRDVIAFPKSFRG HDLMSNTPDSPVPS*GTEALSYP SLQANRLQSRKSSLNHAYHAES
20514	50882	A	20631	1	425	KEPVGCVNNISFLASLAGSTSR NRLQSTRGAGRLQNSGTGLSTN LQHFQEENFRKSSPQLEHT/WSF FGECTTHHLPPVKAPLQTKKKT TNHCFLCGKKTGLASSYECRQ VGELEKLRCFLCDNPAWGLCKI KYLNCLFITS
20515	50883	A	20632	1	1647	
20516	50884	A	20633	1	3096	
20517	50885	A	20634	1	419	
20518	50886	A	20635	558	1070	SFRFGHSHGLWKRKKVA*GSN AIQHNMLQGKQNFHGAALWY KGNSTQSKRPQRAP*ESSTTKR GLQLSRQTLQLDPGGTVPCSEE YCICQ*EGPASRNRYNGVPSHF PSPTCIRESSHSGKILKSRLRCW GWPTDPWSVLPMDPRTSPLCA AGSQAVVAHSGRQKYPAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20519	50887	A	20636	3887	4573	KKTTLLTSLKTRNINLPFKVVK KKAYGSRKHLRQ/HLAINPAAL LPTAASQISEVKPVLPELAFPS EHRRSHGLESVPVLPGSGEAGV SFDLPAQADTLHSANKSRVKM RGKRRPQTRAARRLAAQESSEA EDMRSPEDPLHSGLMAPFPQM AIGHSSEQPVEKTALRRPWQLP LHLGKVVLCLEWTQAPLQSLW VIPEGRLTFLILGTFFPRALDLSP WREQNPRQR
20520	50888	A	20637	1	2988	MATAPSPMLTLAPAWLCPAT TTPRDHSEASLEALPGDPPAHP AAAATAAAVIPALEPPHTPVYA IFVNHSLLDLYIDRPLPYLIGSK LFMEQEDVGLGELSSEEGNADE QSSGLEGACKVNLELLLTNAD KGLKAPEQHLKHVAGVLNGES VETSVLNYRELSPHKNRLLSPL RCSAPMSLHNSLVKPERQSKCF EFGKLQPSSSQSLDVQNITDSSF SRTTCFQGVKVDLSLGRSDVIS KVEARDITEMTNKA
20521	50889	A	20638	1	1176	
20522	50890	A	20639	2	367	
20523	50891	A	20640	124	441	RYPRVPENRCFSELLFFQAPLG VGMARGNQRELARQKNLKET QEISRGKGKEDSLTALSRKQRD S*IIAKKQKAA\NEKKS\MQTRE NVMTGYLENPGATAQLGVS
20524	50892	A	20641	32	232	
20525	50893	A	20642	1	256	
20526	50894	C	20643	133	509	
20527	50895	A	20644	88	685	QKRGRLFkihLVVLYLMKVIVI HRKMFQRAQELRWRAEDYHK CKAFSDHPLCKKASLQLGQNG GSGASSFFRIALLALPHS*NFKK QDGPPATSSNSTTFYN**LPEPQ DTSRMSSYSLSLSSSTLRG**S QDSSLSYSGGRGRKITETQEAE VE*AENRSLHSSLGNKKKSVSG TKEKNQKTKQNPHSKNKLTKN
20528	50896	A	20645	42	946	
20529	50897	C	20646	1	453	
20530	50898	C	20647	771	1223	
20531	50899	C	20648	324	659	
20532	50900	C	20649	427	654	
20533	50901	B	20650	343	1774	
20534	50902	B	20651	23	525	
20535	50903	B	20652	2354	5689	
20536	50904	B	20653	448	3506	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20537	50905	B	20654	12	182	
20538	50906	C	20655	210	422	
20539	50907	C	20656	145	357	
20540	50908	B	20657	1	327	
20541	50909	B	20658	1	2595	
20542	50910	B	20659	122	472	
20543	50911	B	20660	163	418	
20544	50912	C	20661	86	517	
20545	50913	B	20662	334	2946	
20546	50914	B	20663	11	700	
20547	50915	B	20664	184	2372	
20548	50916	C	20665	267	467	
20549	50917	B	20666	131	268	
20550	50918	B	20667	18	255	
20551	50919	B	20668	100	356	
20552	50920	B	20669	120	839	
20553	50921	B	20670	355	504	
20554	50922	B	20671	1	1524	
20555	50923	B	20672	175	366	
20556	50924	B	20673	436	792	
20557	50925	B	20674	94	1347	
20558	50926	B	20675	865	1189	
20559	50927	B	20676	241	423	
20560	50928	B	20677	124	352	
20561	50929	B	20678	1	847	
20562	50930	B	20679	262	4624	
20563	50931	C	20680	76	297	
20564	50932	B	20681	1	702	
20565	50933	B	20682	1	1347	
20566	50934	B	20683	78	2874	
20567	50935	B	20684	133	7317	
20568	50936	B	20685	294	1449	
20569	50937	C	20686	139	367	
20570	50938	C	20688	154	445	
20571	50939	B	20689	1	1086	
20572	50940	B	20690	111	440	
20573	50941	B	20691	303	462	
20574	50942	B	20692	1	2905	
20575	50943	C	20693	349	453	
20576	50944	C	20694	233	376	
20577	50945	B	20695	1	2016	
20578	50946	B	20696	1464	3022	
20579	50947	B	20697	1	1059	
20580	50948	B	20698	1	933	
20581	50949	B	20699	1	930	
20582	50950	C	20700	129	215	
20583	50951	C	20701	283	408	
20584	50952	B	20702	1	1134	
20585	50953	B	20703	1	525	
20586	50954	B	20704	146	556	
20587	50955	B	20705	1	675	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20588	50956	B	20706	1	1107	
20589	50957	B	20707	1	774	
20590	50958	C	20708	52	156	
20591	50959	C	20709	1	420	
20592	50960	B	20710	1	1347	
20593	50961	C	20711	1	411	
20594	50962	B	20712	169	248	
20595	50963	B	20713	63	1321	
20596	50964	B	20714	1	359	
20597	50965	C	20715	1195	1674	
20598	50966	B	20716	964	1290	
20599	50967	B	20717	51	389	
20600	50968	B	20718	108	232	
20601	50969	B	20719	425	3545	
20602	50970	C	20720	35	226	
20603	50971	B	20721	1	387	
20604	50972	B	20722	1	1926	
20605	50973	B	20723	523	1242	
20606	50974	B	20724	42	2346	
20607	50975	B	20725	63	287	
20608	50976	B	20726	59	200	
20609	50977	B	20727	1	1176	
20610	50978	B	20728	1	769	
20611	50979	B	20729	1	2009	
20612	50980	B	20730	219	3045	
20613	50981	B	20731	195	1739	
20614	50982	C	20732	126	435	
20615	50983	B	20733	2752	4108	
20616	50984	B	20734	1	1104	
20617	50985	B	20735	24	230	
20618	50986	B	20736	1	1292	
20619	50987	B	20737	1	7977	
20620	50988	B	20738	157	2627	
20621	50989	C	20739	165	533	
20622	50990	B	20740	35	87	
20623	50991	C	20741	68	202	
20624	50992	B	20742	83	2670	
20625	50993	B	20743	162	276	
20626	50994	B	20744	104	245	
20627	50995	B	20745	66	2768	
20628	50996	B	20746	14	3115	
20629	50997	C	20747	69	203	
20630	50998	B	20748	1	2152	
20631	50999	C	20749	114	387	
20632	51000	C	20750	56	250	
20633	51001	B	20751	53	3398	
20634	51002	B	20752	642	2386	
20635	51003	B	20753	1	1242	
20636	51004	B	20754	51	601	
20637	51005	B	20755	192	463	
20638	51006	B	20756	125	1254	

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20639	51007	C	20757	208	333	
20640	51008	B	20758	155	4443	
20641	51009	B	20759	1	2529	
20642	51010	B	20760	63	321	
20643	51011	B	20761	226	645	
20644	51012	B	20762	1	1395	
20645	51013	B	20763	258	475	
20646	51014	C	20764	126	263	
20647	51015	B	20765	1	1429	
20648	51016	B	20766	51	3256	
20649	51017	C	20767	83	403	
20650	51018	B	20768	1	621	
20651	51019	B	20769	1	463	
20652	51020	B	20770	1002	3594	
20653	51021	C	20771	107	403	
20654	51022	B	20772	51	401	
20655	51023	C	20773	46	398	
20656	51024	B	20774	1	513	
20657	51025	B	20775	1	531	
20658	51026	C	20776	1	423	
20659	51027	B	20777	52	670	
20660	51028	C	20778	43	375	
20661	51029	B	20779	1	1629	
20662	51030	B	20780	1	1713	
20663	51031	B	20781	1	5154	
20664	51032	B	20782	37	585	
20665	51033	B	20783	1	3789	
20666	51034	C	20784	149	367	
20667	51035	C	20785	89	234	
20668	51036	B	20786	113	278	
20669	51037	B	20787	1	1632	
20670	51038	B	20788	1	762	
20671	51039	B	20789	230	3411	
20672	51040	B	20790	95	1150	
20673	51041	B	20791	1	1230	
20674	51042	B	20792	74	3123	
20675	51043	B	20793	1	1719	
20676	51044	C	20794	206	402	
20677	51045	B	20795	302	424	
20678	51046	B	20796	60	80	
20679	51047	B	20797	1	1248	
20680	51048	B	20798	8	1910	
20681	51049	B	20799	124	807	
20682	51050	B	20800	43	618	
20683	51051	B	20801	7	328	
20684	51052	B	20802	244	385	
20685	51053	B	20803	850	970	
20686	51054	C	20804	97	360	
20687	51055	B	20805	551	3159	
20688	51056	B	20806	861	1110	
20689	51057	B	20807	1	876	

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20690	51058	B	20808	1	849	
20691	51059	B	20809	1	1443	
20692	51060	B	20810	508	2398	
20693	51061	B	20811	53	185	
20694	51062	B	20812	50	633	
20695	51063	B	20813	1	444	
20696	51064	B	20814	58	262	
20697	51065	B	20815	27	1005	
20698	51066	B	20816	1	4860	
20699	51067	B	20817	1	3489	
20700	51068	C	20818	52	363	
20701	51069	C	20819	347	499	
20702	51070	B	20820	1	4140	
20703	51071	B	20821	85	3930	
20704	51072	B	20822	848	3116	
20705	51073	B	20823	41	1211	
20706	51074	B	20824	248	4307	
20707	51075	B	20825	67	3180	
20708	51076	C	20826	229	467	
20709	51077	B	20827	71	1827	
20710	51078	B	20828	1	1045	
20711	51079	B	20829	1279	1479	
20712	51080	B	20830	1	2460	
20713	51081	B	20831	62	3691	
20714	51082	B	20832	1	1062	
20715	51083	B	20833	1	873	
20716	51084	B	20834	1	1041	
20717	51085	B	20835	161	5445	
20718	51086	B	20836	199	343	
20719	51087	C	20837	86	229	
20720	51088	C	20838	1	225	
20721	51089	C	20839	34	165	
20722	51090	C	20840	238	455	
20723	51091	C	20841	200	322	
20724	51092	B	20842	59	164	
20725	51093	C	20843	1353	1793	
20726	51094	B	20844	1	1329	
20727	51095	C	20845	43	324	
20728	51096	C	20846	223	435	
20729	51097	C	20847	212	307	
20730	51098	C	20848	386	529	
20731	51099	B	20849	300	995	
20732	51100	B	20850	876	3312	
20733	51101	B	20851	153	306	
20734	51102	B	20852	39	3131	
20735	51103	B	20853	29	136	
20736	51104	B	20854	112	333	
20737	51105	B	20855	31	474	
20738	51106	B	20856	26	1716	
20739	51107	B	20857	27	1234	
20740	51108	B	20858	1	6390	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20741	51109	B	20859	1	1014	
20742	51110	B	20860	128	837	
20743	51111	B	20861	1	931	
20744	51112	B	20862	357	4629	
20745	51113	B	20863	1	1017	
20746	51114	B	20864	1	1908	
20747	51115	B	20865	224	9448	
20748	51116	B	20866	1	1209	
20749	51117	B	20867	138	359	
20750	51118	B	20868	1	1567	
20751	51119	B	20869	226	9033	
20752	51120	B	20870	20	2689	
20753	51121	B	20871	1602	2647	
20754	51122	C	20872	72	452	
20755	51123	C	20873	64	423	
20756	51124	B	20874	33	363	
20757	51125	B	20875	131	1675	
20758	51126	B	20876	37	219	
20759	51127	B	20877	1	564	
20760	51128	B	20879	1	651	
20761	51129	B	20880	44	424	
20762	51130	B	20881	28	202	
20763	51131	B	20882	1	3403	
20764	51132	B	20883	110	970	
20765	51133	B	20884	70	485	
20766	51134	B	20885	482	2943	
20767	51135	B	20886	469	1480	
20768	51136	B	20887	156	308	
20769	51137	C	20888	218	348	
20770	51138	B	20889	1	5130	
20771	51139	B	20890	21	1139	
20772	51140	B	20891	1	1302	
20773	51141	B	20892	1	1028	
20774	51142	B	20893	1	858	
20775	51143	B	20894	1	2001	
20776	51144	B	20895	1	546	
20777	51145	B	20896	1	1167	
20778	51146	B	20897	1	1299	
20779	51147	B	20898	1	1260	
20780	51148	B	20899	1	771	
20781	51149	C	20900	155	337	
20782	51150	B	20901	1	1251	
20783	51151	B	20902	106	543	
20784	51152	B	20903	57	2279	
20785	51153	B	20904	905	1120	
20786	51154	B	20905	145	2277	
20787	51155	B	20906	1	1384	
20788	51156	B	20907	1	4775	
20789	51157	C	20908	99	251	
20790	51158	B	20909	1	693	
20791	51159	B	20910	77	2173	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20792	51160	B	20911	140	313	
20793	51161	B	20912	1	392	
20794	51162	C	20913	1	222	
20795	51163	B	20914	1	951	
20796	51164	B	20915	45	1244	
20797	51165	B	20916	166	2544	
20798	51166	C	20917	279	449	
20799	51167	B	20918	1	1250	
20800	51168	B	20919	229	2094	
20801	51169	B	20920	94	434	
20802	51170	C	20921	253	336	
20803	51171	B	20922	1	1314	
20804	51172	B	20923	6	327	
20805	51173	B	20924	163	3060	
20806	51174	B	20925	20	385	
20807	51175	B	20926	22	58	
20808	51176	C	20927	141	287	
20809	51177	B	20928	37	1063	
20810	51178	C	20929	261	401	
20811	51179	B	20930	66	3148	
20812	51180	B	20931	223	4149	
20813	51181	C	20932	21	278	
20814	51182	B	20933	158	1283	
20815	51183	B	20934	8	896	
20816	51184	B	20935	240	387	
20817	51185	C	20936	312	512	
20818	51186	B	20937	451	611	
20819	51187	C	20938	160	428	
20820	51188	B	20939	110	294	
20821	51189	B	20940	121	1764	
20822	51190	B	20941	1	423	
20823	51191	C	20942	74	316	
20824	51192	C	20943	136	255	
20825	51193	C	20944	79	381	
20826	51194	B	20945	282	1180	
20827	51195	B	20946	63	371	
20828	51196	C	20947	193	672	
20829	51197	B	20948	85	898	
20830	51198	B	20949	35	1055	
20831	51199	B	20950	1	870	
20832	51200	B	20951	103	1189	
20833	51201	B	20952	501	594	
20834	51202	B	20953	39	1694	
20835	51203	B	20954	489	4797	
20836	51204	C	20955	31	153	
20837	51205	B	20956	259	699	
20838	51206	B	20957	4	231	
20839	51207	B	20958	50	520	
20840	51208	C	20959	322	456	
20841	51209	B	20960	163	1152	
20842	51210	B	20961	33	745	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20843	51211	B	20962	210	3519	
20844	51212	C	20963	34	294	
20845	51213	C	20964	301	381	
20846	51214	B	20965	71	675	
20847	51215	B	20966	1	873	
20848	51216	B	20967	118	1618	
20849	51217	B	20968	424	2415	
20850	51218	C	20969	106	231	
20851	51219	B	20970	71	756	
20852	51220	B	20971	1	1049	
20853	51221	C	20972	94	327	
20854	51222	B	20973	339	2589	
20855	51223	B	20974	89	273	
20856	51224	B	20975	1	2514	
20857	51225	B	20976	472	5831	
20858	51226	C	20977	247	300	
20859	51227	B	20978	1	2487	
20860	51228	B	20979	55	243	
20861	51229	C	20980	207	377	
20862	51230	B	20981	642	4117	
20863	51231	B	20982	44	2127	
20864	51232	B	20983	48	1127	
20865	51233	B	20984	1	3411	
20866	51234	B	20985	74	469	
20867	51235	B	20986	39	1251	
20868	51236	B	20987	223	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20869	51237	A	20988	1	2577	MPPNRHRMRGETTLWNP GCDH AGIATQVVVEKKLWREQGLSR HQLGREAF LQEVWKWKEEKG DRIYHQLK\KLGSSLDWDRACF TMDPKLSAAVTEAFVGLHEKG IHYRSTAFVNWPCTLNSAISDIE VDKKELTGR TLLSVPGYKEKV EFGVLVSFA YK\VQGS D*/DDE EVVVANKLGSKTMLGDVAVA VPPPKDTR\YQHL\KGKNVIHPF LSRSLSP LSSDEFVDMDFGTGA VKDHPPRHDQNDYEVGQRHGL EASIMDSRGA\PIKCASA FPGPA AGLRPGKRCWWR*RN RGLFRG IEDNPMVVPLCNRSKDVVEPLL RPQWYVRCGEMAQAASAAVT RGDLRILPEAHQRTWHAWMD NIREWCISRQLWWGHRIPAYFV TVSDPAVPPGESEDLSVFYPGT LLETGHDILFFWVARMV MLGL KLTGRLPFREVYLPCPSCENAH GRK\MSKSLGNVIDPLDVHL/Y GISLQGLHNQLLNSNLDPSEVE KAKEGQKADFPAGVPEC GTDA LRFGLCAYMSQGS*K*TWNVN RIMG*RQFCNKLWKCTKFALR GLGKGFVPSDTSNSAGHESLA DR*IRNLLTEAVRLSNQGFQAY DFPAVTTAQYSFWLYELCDVY LECLKPVLNGVDQV/AQAECAR QTLYTLPWTLGLRLLSPFMPFV TEELFQRLPRRMPQAPPSLCVT
20870	51238	A	20989	2	4083	SQRGEHVGAGCRGGDLRELGS PGEPTVSARSTPPPGPLGGSQP RPAPGCEVDSPAQSDHLPVFP LRSDLLITMSTLYVSPHPDAFPS LRALIAARYGEAGEGPGWGGA HPRICLQPPPTSRTSFPPRLPAL EQGPGGLVWWGATAVAQLLW PAGLGGPGGSRAAVLVQQWVS YADTELIPAACGATLPALGLRS SAQDPQAVLGALGRALSPLEE WLR LHTYLAG EAPTLADLA AV TALLPFRYVLDPPAR

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20871	51239	A	20990	1	756	MDMGAIKEGESRRPGDRMTVA GTKLLHLQSTHLD FISLSGAPSG ALELSKAQPAHAQDTRVLMKM VIIWDL SQVPLQPGHDGHSFRIH DYLYFQVLSPGDIRYIFTATPAK DFGGIFHTRYEQIHLVPAEPPEA CGELSNGFFIQDQIALVERGGCS FLSKTRVVQE HGGRGGDHL*Q RS*QMTASTW/QMIQDSTQRTA DIPALFLLGRDGYMIRRSLEQH GLPWAII SIPVNVH QHSPPLSCC NRPFLFW
20872	51240	A	20991	2	393	
20873	51241	A	20992	1066	1824	
20874	51242	A	20993	3	902	
20875	51243	A	20994	1	2163	
20876	51244	A	20995	1	1890	
20877	51245	A	20996	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCD SHSLGFSLVWESR NLTLPTSKLLHFSAFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYYSEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLV DYDSARH

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20878	51246	A	20997	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMASKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPPRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
20879	51247	A	20998	3	273	RRPRQRPTDQTQWFSILPDFSLD LQEGPSVESQTHSDPHIPPVDP TTHLTFNHLISIVCVSLTSLPHL GSPCLWSPALVSQEAASHQDRR
20880	51248	A	20999	309	1310	RHQRAPEQGPDA SWKMLDSL ALGG\LVLL\ARDSVE\WEG\RSLL K\ALVKKSALCGE\QVHILGCE\ VSEKEFREGFDS**STIRLVYHD F\FRDPLNWSKTEEGL\VPGGPL GALRS\MCKR\TDPVPVTIALDS LS\WLLRLRHCT\TLCQALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHIL\CRRPRQ\ RPN\YQTQWFSILPDFSLGSPRG ALCRVPALIPHITPGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQA\LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNILP

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20881	51249	A	21000	418	1304	GLVMEIGMHHHEHHHLQAPNK EDILKISEDERMELSKSFRVYCH LVKPKDVSLLWAAVKETWTKH CDKAEFFSSENVKVFESINMDT NDMWLMMRKAYKYAFDKYR DQYNWFFLARPTTFAIENLKY FLLKKDPSQPFYLGHTIKSGDLE YVGMEGGIVLSVESMKRLNSL LNIPEKCPEQGGMIWKISEDKQ LAVCLKYAGVFAENAEDADGK DVFNSQICWAFY*/R/WQ*LITPN QVVEGCCSDMAVTFNGLTPNQ MHVMMYGVYRLRAFPGPYFSM MHWFSYLQMVLTMTTEKW
20882	51250	A	21001	1	1092	
20883	51251	A	21002	130	397	EGVHSQVNLFPKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHIISSNLEKIVNPKGEEKPF
20884	51252	A	21003	11	805	SSMAKPCGVRLSGKGRKQVEV FYRNLFQEAEEFLLR\FLPPESHI P*NRLQEDFPFNVA*/LLNLSS GAPLDIPSPDP\PP\KDDMETD K\QEKKEVPKCDFLP\GNEKCPC PCLPLVKPRSLDLSKEKC\ILVI TWGSRHLDPPRFEDGK*FWG* AIPGEGAWRG*NA\VKDPKWE AFPATPISQVLSSERGDACGPRP PQETHVMDYRALVHERDEAA YGELRAMVLDLRAFYAELYHII SSNLAEKIV\TPRGEEKPIYVLEP
20885	51253	A	21004	352	670	AKRSRIHVGVIIVDSGAEELGR DAAALSEKPPSLTIGLHMELVG MGGEPAALTATPANCPEYPAKPS SI/EQQ*QSQVQ**Q*QVRHGS PLHRTPRQLFLCSRQFAL
20886	51254	A	21005	3	222	SPEESPPACPRQVFPLYHLQRG QGKRVQVG*GGSLWITTKTRLL PGGVGDNEVAPGSWHLALVFR LLSSGRP

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20887	51255	A	21006	1	3639	MSEETLQSKLAAAKKKIQDILN VLVSDLNRSNGVVLPTLDKWK DAPEAWDLCLALRSICGLAIQL LGAAPLTRAANFSVAEVT DVR DSARRWETRKAPYLSCRIALRM NEAAVFRHLVPGVYFPRCDQG CQLTAALGCGAGVQSHVGPVT VTTGPD SVTAADAAGLCRVLR AVGWGGSECLTPHPYKFHVE PYGGRLVPPRLSVDPGSSRREA TSKVAVDLLVLDAAGADGPVS QSPVWKEAAGVVSQLRGGRQ
20888	51256	A	21011	137	944	KPRCCHSATMFEVPLVQGSILK KVLEALKDLINACWDISSGV NLQSMDS/SHVSLQFTLPSEGF DTYRCD CNLAMGVNLTIMSKIL KCAGNEDIVTLRIEDNVNTLV VFEASNQEKVSDYEIKLMDLD VEQLGIAEQEYHYVVKMLSGE FASIC*DL SHIGDAVVISGVKDG IIFSASGDLGNKNKLSQTSTVD KEEEAVTMEMNEPVQLTFALR YLNFLT KATPLSSMVT LNMSA DIHLVVDYKIADVGHLYLA PKMEDEEGP
20889	51257	B	21012	205	1309	
20890	51258	A	21013	189	410	
20891	51259	A	21014	1767	2158	RAQPHLYPEAARTGRK*LHFC APSSAPRAPVSERR/CAGRFLSW CPVAAWDPARWARRARRRRR AAARRRRPPRWRRRCLSARGR RRSLNSSKTKNTKCLNSINQRL KILSLQKDL MCGTAGRCKTLTE Q
20892	51260	A	21015	1	1710	
20893	51261	A	21016	132	522	
20894	51262	A	21017	1	1386	
20895	51263	A	21018	331	3101	SFSEANISTAKKTFLYNELYVY NTRKDTWTKVDIPSPRRCAH QAVVVPQGGGQLWVFGGEFAS PNGEQFYHYKDLWVLHLATKT WEQVKSTGGPSGRSGHRMVA WKRQLILFGGFHESTRDYIYNN DVYAFNLDTFTWSKLSPSGTVP TPRSGCQMSVTPQGGIVVYGG YSKQMPPHSGQSRGRKPGSCLL LLLLLLLLLLLLLCLVPLGYSL IELSSSYRLHGNEVPATFHGLN SHMGLVATILDNVNP

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20896	51264	A	21019	2	2911	VRGPRARCRRRSSKTEPRKGPS RTSTRKRLELGAGSDSISVRRAP PHEHLFPSGERGPFSLVSRRL GPGKMGKKKGKKEKKGRGAEK TAAKMEKKVSKRSRKEEPGVC RRIRPDLGVECSAAAAGHGFNR GQFYGLPCARHSSLGFTPHEQE DLEALIAHFQTLDAKRTQTVEV PCPPSPRKCRGSQFVVTEDSVR KGTALRLNASLSVHPEKDELIL FGGEYFNGQKTFLYNELYVYNI RKDTWTKVDIPSP
20897	51265	A	21020	1	208	DGYRHEMLPASLIQAQRDYFG AH/TYELWAKPGQFIH/TNWTG HGGTVSSSSYNALFSVQFFK SVVRDS
20898	51266	A	21021	3	316	
20899	51267	A	21022	2	578	LIGLAVMGQNLILNMNDHGFV TVSKVDDFLANEAKGTKVVGA QSLKEMVSKLKKPRRIILLVKA GQAVDDFIEKLRRCDLKAKGI LFVGSVSGGEEGARYGPSLMP GGNKEAWPHIKTIFQGIAAKVG TGEPCDWVGDEGAGHFVKM VHNGIEYGDMQLICEAYHLMK DVLGMAQDEMALCPIFCVF

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20900	51268	A	21023	3	1758	AYANLGTRFWREPLRVFPSLVL RASPLFGSALSAAMAQADIALI V\LFVMGHNILNMDHGFVC AFNRTVSKVDDFLANEAKGTK VVGAQSLKEMVSKLNKPPRDQ YLLC/VKAGQAVDDFIEKLVPL LDTGDI\NDGGNSEY*GTPQDG CRDLKAKGILFEGS\GVSAGEE GD\RYGP\SLMPGGNK\EA WPHI KTIFQGIA\AKVGTGEPCC\DWV GDEGAGHFVKMVHNGIEYGD MQLICEA YHLMKDVLGMAQD EMAQAFEDWNKTELD SFLIEIT ANILKFQD TDGKHLLPKIQGTS AGARRGNRSGT/WPFSGPGKY GVPV\TL\GEAVFARCLSSLKD ERI\QASKKLKGPQK\FQFDGD* EIISWEDIRKALYASKIISYAQGF MLLRHAA\TEFGWTLNYG\GIA LMWRGGCIIRSVFLGKIKDAFD RNP\ELQNLLD\DDFFKVQLFEN CQ\DSWR\RAVSTGVQGWAFP MPLFYRLPLSI*TGTSHEMLPAQ PSSRLQRGLLSGAHTL*NSWAK PGAVLFHTNWTG\HGGTVSSSS YQCLDHAAPVTLHDSTVPGHSI GLNGTAHLALCPIFCSVFFKSV
20901	51269	A	21024	317	885	MRWRSKSAWRAEPKSRNTSGT ASNVSPSRPLEC*R/FLRLVSGE LILALIAFICIETIMACSPCEGLY FFEFVSCSAFVVTGVLLIMFSLN LHMRI PQINWNLTDLVNTGLSA FLFFIASIVLAALNHRAGAEIAA VIFGFLATAA YAVNTFLAVQK WRVSVRQQSTNDYIRARTESRD VDSRPEIQRLDT
20902	51270	A	21025	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSRNPISPISNPHT TSKRLNRSGQAF LQNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL

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20903	51271	A	21026	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRDLDSHT IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRRIKLTQNHSTTWKL NNLLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEELEKQEQTRSKASRE EITKIRAELEKETQKTLQKINES RSWFFEKINKIDILLARLIKKR EKNQIDAIKNDKGDIATDPTEIQ TTIREYYKHLCPNKLLENLEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLKLFQSIEKEGILPNSFSEA SIILIPKPGRD\TTKENFRPISLM NIDAKILNKILANQIQQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISSIDA EKA FDKIQQPSC
20904	51272	A	21027	1	181	MEEKEERKRRRKRKRRREEGR DGERKRMEKQKENQDPKDPPT TSGPQT\TSPRNISPISNP
20905	51273	A	21028	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT\TRPRNISPISNLVS GLFLLSSPTSLTIPQLSSFNLDL TLQSLPSLNF
20906	51274	A	21029	449	663	LGSGDLPWEINTQSSCSLLCEK DPPTTSGPQT\TSPRNISPISNPDP TGNRTVQLTWQVPPEPELWPKAL
20907	51275	A	21030	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQT\TRPRNISPISNP TLA GNLATGPRNARSPGFLLSH VLSVWDPTENQTVQLTWQPLP QPLELWPKAL
20908	51276	A	21031	122	334	LRSGDLLWEINPLSS*SLLHEKD PPTTSSPQT\TSPRNISPISNPDP ENQTVQLTWQPLPEPELWPKAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20909	51277	A	21032	109	320	LGSGDLP*EINPPSSCSLLREKD PPTTSGPQTVTSPRNISPISNPDP GNRTVQLTWQPLPQPLELWPK AL
20910	51278	A	21033	620	717	
20911	51279	A	21034	3	678	GGGFSRDRRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLPDPAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKHPPISNP VHVPEIWPLGQGMPAARIPPKP RPICVGPH*KSTVQLTWQPLPEP LELWPRLSD
20912	51280	A	21035	339	1098	LGSGDLPWEINPLSSCSLLREKD PPTTSGPPTVTSRPNISPISNPGET KETRFIRGPKTPAPVTDWEGSL PLVFNHCRDASLIHPRFKGVRP RRDACLGPSPLAASPTFLGKGQ RLKTDARLPRKPPRPSRTLSFS TAPRILSIVVPGSGHTLAFLDVT RHRLYRESKPVVGEEDYSEW LSDVGKSEWSFSTCASSTSVNK HDTGRRLLGKRGGMESKGL CNFITMTKNIRSLAQMTIWQYL SPCREPV
20913	51281	C	21036	1	438	
20914	51282	A	21037	174	483	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQTVTSPRNISPISNPQR RHILSMDPKLRRRSWTWVGSPL LVFNHCRDASLIHHPGRGVRPR RDVCLGPSPLA
20915	51283	A	21038	590	824	PNSSWMRGEPPKDPPTTSGPQTV TSRPNISPISNPGRLSDYSPRFQ RCQTTQGRLPWSFTLSGKSRSFS GEGATWGLKT
20916	51284	B	21039	1	1596	
20917	51285	B	21040	155	2206	
20918	51286	B	21041	1	831	
20919	51287	B	21042	75	474	
20920	51288	B	21043	38	1009	
20921	51289	C	21044	335	481	
20922	51290	B	21045	66	652	
20923	51291	B	21046	1	673	
20924	51292	B	21047	1	451	
20925	51293	B	21048	74	3516	
20926	51294	B	21049	783	3463	
20927	51295	B	21050	1	807	
20928	51296	B	21051	41	1700	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20929	51297	C	21052	18	381	
20930	51298	B	21053	1	3147	
20931	51299	B	21054	1	2586	
20932	51300	C	21055	756	1403	
20933	51301	B	21056	42	205	
20934	51302	B	21057	40	420	
20935	51303	B	21058	303	1170	
20936	51304	B	21059	1	2631	
20937	51305	B	21060	19	3093	
20938	51306	B	21061	23	241	
20939	51307	B	21062	84	1775	
20940	51308	B	21063	68	1542	
20941	51309	B	21064	74	2566	
20942	51310	C	21065	730	1023	
20943	51311	B	21066	67	1159	
20944	51312	B	21067	294	929	
20945	51313	B	21070	68	336	
20946	51314	B	21071	1	1992	
20947	51315	B	21072	1	4188	
20948	51316	C	21073	44	535	
20949	51317	B	21074	983	2636	
20950	51318	B	21076	289	1693	
20951	51319	B	21077	364	2393	
20952	51320	B	21078	471	590	
20953	51321	B	21079	1	1026	
20954	51322	B	21080	343	4253	
20955	51323	B	21081	1	819	
20956	51324	B	21082	648	894	
20957	51325	B	21083	1	1236	
20958	51326	B	21084	1	822	
20959	51327	B	21085	211	363	
20960	51328	B	21086	193	264	
20961	51329	B	21087	1	1260	
20962	51330	B	21088	143	3158	
20963	51331	B	21089	85	353	
20964	51332	B	21090	221	598	
20965	51333	B	21091	1	4878	
20966	51334	B	21092	171	362	
20967	51335	C	21093	320	408	
20968	51336	B	21094	1	1218	
20969	51337	B	21095	1	1761	
20970	51338	B	21096	315	1224	
20971	51339	B	21097	526	3482	
20972	51340	B	21098	41	4858	
20973	51341	C	21099	38	250	
20974	51342	C	21100	157	225	
20975	51343	C	21101	191	415	
20976	51344	B	21102	42	507	
20977	51345	C	21103	71	367	
20978	51346	C	21104	231	439	
20979	51347	C	21105	207	459	

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20980	51348	A	21106	1	429	
20981	51349	A	21107	184	544	VRLLKILQLQRFKMYVQQLDL TYFLRKIKCTLENGIVMSNTEA ESGVQLKPGRWGASALYSSHHI IH*A*LLVPR*VSNVCSRNDT* TKNKDTKNRRC*PKSSTRRGK* KRERKEKEVT
20982	51350	A	21108	3	1200	LSQKEEEEDTFIEEQQLEEEKLL ERERQRLHEEWLLREKQAQEE FRIKKEKEEAAKKRQEEQERKL KEQWEEQQRKEREEREEQKRQE KKEKEKTFMWKPSVDLFSHLA SLRTPICQDKGNAYQEHFPEK KKKRSSQLAIEGAFGYPHLL AILGLRCSRKHNFPTSSPTLLIKS MFTTFGMEQCRRDDYDPDASL EYSEEETYYQFLDFYEDVLPF KNVGKVIQF/KGLFEIQQCPRGK HCNFLHVFRNPNEFWANRDI YLSPDRTGSSFGKNSERRERMG HHDDYY SRLRGRNPNPSPDHSY KRNGESERKSSRHRGKKSHKRT SKSRERHNSRSRGRNRDRSRDR SRGRGSRSRSRSRSRSRSRSQ SSSRSRSRGRRRSGNRDRTVQS
20983	51351	A	21109	789	907	
20984	51352	A	21110	236	1823	CPIQRQSPGPAQTGRWEPLPCT VPITLRMSEGGGAGKMAALE KMTFPKKMTFPEKPSHKKYRA ALKKEKRKIRRQELARLRDSSL SQKEEEEDTFIEEQQLEEEKLLE RERERLHEEWLLREKQAQEEFR IKKEKEEAAKKRQEEQERKLKE QWEEQQRKEREEREEQKRQEK EKEEALQKMLDQAENELENGT TWQNPEPPLDFRVMKDGVN CPFYSKTGACRFGDRCSRKHYP PTS\PTLLIKSMFTTLGMEQCAR RDDYDPDASLEYSEEETYYQFL DFYEDVLPFKNVGKVIQFKVS CNLEPHLRGNIYVQYQSEEEC QAALSLFNGRWYV\AGRQLQC EF*TGDRWKMAICGLFEIQQCP RGKHCNFLHVFRNPNEFWEA NRDIYLSPDRTGSSFGKNSERRE RMGHDDYY SRLRGRNPNPSPD HSYKRNGESERKSSRHRGKKSH KRTSKSRERHNSRSRGRNRDRS RDRSRGRGSRSRSRSRSRSRSS RSQSSSRSRSRGRRRSGNRDRT
20985	51353	A	21111	289	366	

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20986	51354	A	21112	1	1289	
20987	51355	A	21113	60	367	EELGYAGRGMGARQPPPPARKA VSPLQERAEPVGSPPG*GWRSRP STHGIASHGGPACSLCSLHFTFF VDFPSLFSPICLPEGWDWQQEQ PCLLYLSSPRCTQA
20988	51356	A	21114	1	653	RRRGSAAAGGRAERKA EVGA MNMAGGKAGKDSGKAKAKA V\SRSQRA\GLQFPVGRHRLK TRT\TSHGR\VGATAAVYSAAI L\EYLTAEVLEL\AGYASKDLQ SKSVSLPRHLQLAIPWVIEELDS LIQGLP*AGGGVIPSHPHKSLIG KEGDSKKTALEGMLLTQPLSLP RHLYCNWDKKNNGDMWNFLP PVKWKSIDNYCRHDKRNICMF LDSEV
20989	51357	A	21115	1	1019	SVCWAGGAPRAHSTRTHAWLG RPAMEPGSVENLSIVYRSRDFL VVNKHWDVRIIDSKAWRETGRP EP\QVASVEESGSDSGLC/HHSR FCHQLDFSTSGALCVALLVLGG LPGSTGLPRELRAILPLLQLRGH IQESRVSIVRWGGPGPRVSPTNL TPAFCAPGCENPKPSLTGSWSG R*VWIGPAPSLIRHRPHPAGRTH QLRV\HCSALGHPVVGDLTYGE VSGREDRPFMRMLHAFYLRPT DTECVEVCTPDPFLPSL\DACWS PHTLLQSLDQL\AAGLKGQPPD P*TRG*GGPRPGSPSALLPGHGR PPPPTTKPPETEAQRGPCLQWL SEWTLPEPDS
20990	51358	A	21116	698	1472	RWAPRRGLSVLDLGGSSAPLCP PATTARLDAEPHGSLPNSCLWE CSCLLQGIWAAGPSGLSLHYPP LSSPLGSSPPSRPQRLVLIRAGR GGWVGSVGETMTSSYGHVLER QPALGGRLDSPGNLDTLQAKK NFSVSHLLDLEEAGDMVAAQA DENVGE\SSRTRGGGAGLGKGL SGVQTQRASAVWESSRLKMLS RVGRASLGQRMTA*GRLQLYP HAPKSVTDRSPCSSQVTKSWNR GALQHSMIFTKRCLFQTLKE

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20991	51359	A	21117	50	1226	KMAEEVVVVAKFDYVAQQEQ ELDIKKNERLWLLDDSKSWWR VRNSMNKTGFVVPSTYVGR\EN SARKASIVKNLKD TLGIGKVKR KPSVPDSASPADDSFV\DPGERL Y\DLNMPA\YVKFN\YMAERED ELS\LIKG\TKVIVMEKCS\DGW WRGTYNGQVGWFPSNYVTEE\ GESPLGDHVGSLSEKLA AVVN NLNTGQVLHVQALYPFSSSN DEELNFEK\GDVMDVIEKPEN PEWWKCRKINGMVGLVPQKL W*PLLQSIQLTSGLT LTFCG IRPYIPGKFVGNPWYYGKVTRH QAEMALNERGHEGDFLIRDSES SPNDFS VSLKAQGKNKHFKVQ LK\ETVYCIWQRKSCTME*LVE HYK\KAPNFYNVNKGEKLYLV
20992	51360	A	21118	132	428	
20993	51361	A	21119	3	337	AKLAGA AVPCARGRAAPLAA AALPAARL\PSGAGPAGLVSDV RRRPFARE/PEPRVP/SQPPALSA LGALALKLFSSPPSCWSFSVKT GVLVPWIMCISWPYFLSGNLLT MMW
20994	51362	A	21120	438	1066	LNQKGKGGRGEALKNDLVVAP PPSPRRGVR*EALHVPDTGPFK KPRKRK*NQRQREAERK*TFPR EEEARRETHGPLPAPRPPPLCP/ PAASSAPRPGPKGAR*LSLSAE GRARRRSAGASGGAGAAATAA AAAAP EHPRGSEPRQPASPAPQ RERPRRPAPRLPPQCP RPSKGRA WTLQTTTGQKVCTGAGTRRA WRRAGAVRRFAWA
20995	51363	A	21121	1	924	
20996	51364	A	21122	1	435	
20997	51365	A	21123	1	524	
20998	51366	A	21124	1	602	MGKGSPAHAQGP GSFLHGGAG DQGRGRPITLYEDRGFQGRHY ECSSDHPNLQAYLSRCNSVRVD SGCWVLYEQPNYSGLQ*FLRR GDYADHQQWMGLSDSVRSCR LIP\HASSHRLRIYEREDYRGQM VEITEDCSSLHDRFHLSEIHSFN VLEGSWVLYELPNYQGRQYLL RPGDCRWCDWGATDARVGS LRRAVELY
20999	51367	A	21125	1	1239	
21000	51368	A	21126	298	408	
21001	51369	C	21127	92	241	

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21002	51370	A	21128	33	191	RDDPRVRPPPNST*PQQEPGL* LIKCTSPQAPAPRTVHGPFYF MRLIKMF
21003	51371	A	21129	3	1285	
21004	51372	A	21130	3	3468	QPGHTIYLLPTVVICNLLPCELD FYVKGMPINGTLKPGKEAALH TADTSQNIELGVLENFPLCKEL LIPPGTQNYMVRMRLYDVNRR QLNLTIRIVCRAEGSLKIFISAPY WLINKTGLPLIFRQDNAKTDA GQFEEHELARSLSPLLFCYADK EQPNLCTMRIGRGHPEGMPGW CQGFSLDGGSGVRALKVIQGG NRPGLIYNIGIDVKKGRGRYIDT CMVIFAPRYLLDNKSSHLAFA QREFARGQGT
21005	51373	A	21131	3	451	
21006	51374	A	21132	2	107	LEGLEES/VRDRCKKEFTDLMIE MDSRLLGPTSKVK
21007	51375	A	21133	2	158	PGIPVL/DYRTYTDGFFSLPSKD GDKDVMITGKLDILKPQNQHR VFTVESRVI
21008	51376	A	21134	2	5632	FVRRTCRESRCWPGAETELDH WSLGEVGRGAMALQLWALT LGLLGAGASLRPRKLDFFRSEK ELNHLAVDEASGVVYLGAVNA LYQLDAKLQLEQQVATGPALD NKKCTPPIEAS\QCHEAEMTDN VNPLLLVDPPRKRLVECGQLLK G\ICALRALSNI SLRFYEDGSG EKS FVASNDEGVATVGLV SSTG PGGDRVLFVGKGNGPHDNGIIV STRLLDRTDSREAFEAYTDHAT YKAGYLSTNTQQFVA AF
21009	51377	A	21135	168	5568	AREKCGGAMGAGSSTEQRSPE QPPEGSSTPAEPEPSGGGPSAEA APDTTADPAIAASDPATKLLQK NGQLSTINGVAEQDELSLQEGD LNGQKGALNGQGALNSQEEEE VIVRQVDHIDSEDVSDRDSDE MTTKSAVVHDITDDGQEETPDI IEQIPSESNEELTQPTESQAND IGFKKVFKFVGFKFTVKKDKTE KPDVTQLLTVKKDEGEAAGA GDHQDPSLGAGEAASKESEPK QSTEKPEETLKREQ

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21010	51378	A	21136	807	1162	ISYHGGRRRRPQ/PVGPLGSCRS *SSRRWSTTGRITFRAGWKSCS TPPSTSSLPTSTGTW*GPGTSAL LPPTPLPPRAAATPCACACASE SRMPAARALGLRVRRRLLEGRS GKDTQG
21011	51379	A	21137	1	562	
21012	51380	A	21138	1	423	
21013	51381	A	21139	1	1871	MTTFKEAMTFKDVAVVFTEEE LGLLDLAQRKLYRDVMLENFR NLLSVGHQAHRDTHFLREEK IWMMKTAIQREGNSGDKIQTE METVSEAGTHQEWSFQQIWEKI ASDLTRSQDLVINSSQFSKEGDF PCQTE/ARTICNSHKTEI/FPRA/I GYKPSFSDVSHFDHFQQLHSGE KSHTCDECGKNFCYISALRIHQ RVHMGEKCYKCDVCGKEFSQS SHLQTHQRVHTGEKPFKCVCEC GKGFSRRSALNVHH
21014	51382	A	21140	1056	2988	FCILIGDKIQTEMETVSEAGTHQ EWSFQQIWEKIASDLTRSQDLV INSSQFSKEGDFPCQTEARTICN SHKTEIFPRAIGYKPSFSDVSLF DFHQQQLHSGEKSHTCDECGKN FCYISALHMHQRVHMGEKCYK CDVCGKEFSQSSHLQTHQRVH TVEKPFKCVCECGKFSRRSALN VHHKLHTGEKPYNCEECGKAFI HDSQLQEHQRIHTGEKPFKCDI CGKSFCGRSRLNRHSMVHTAE KPFRCDTCDKSFRQRSALNSHR MIHTGEKPYKCEECGKGFIARR DLYTHHMHVHTGEKPYNCKECC KSFRWASCLLKTSSSESHSGVEKP FKC\EECGKGFYTISQCYSHQR SHSGEKPYKCVCECGKGYKRRRL DLDFHQRVHTGEKLYNCKECC KSFSRAPCLLKHERLHSGEKP QCEECGKRFTQNSHLHSHQRIV HTGEKPYKCEKCGKGYNSKFI YMHQRVHTGERPYNCKECCGK SFGWASCLLKHQRLHSGENPFK CEECGKRFTQNSQLHSHQRVH TGEKPYKCDCECGKGFSSSTR LTHQR\RH\SRETPLKCEQHGK NIV\QNSFS/EKLPEKVHQC*KK PYKCEDL/CGKGYNRRL*IL\DM HQR\VHMGEKTVKCRECDMCF \SQAS\SLRLHQNVHVGEKP

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21015	51383	A	21141	154	1470	KDGDHMGYTYKVIERILEIGAF RPHMSLGQLQSARGVACLGCK GTCSGFEPHSWRKICKSC\NAA KRTTA*HLT*KNDRKLGRWLR DSKYSTLHLLG*KAGTASGFYK RNP\MI\LTNPIATGKDPTFDTIT YEWGSPWEFTQETGDCSYMGA HSPREEGSQLTGHQRGA FYRA ARPAHAPGLPIYD\QDPLALPVD FWRNELKTEWKEFVK\KYKSE GPSALGEVALPGQGW LAPRKE GE/GSRKKPEGGRP/PAATTNG SLSDPSKEVEYVCELCKGAAPP DSPVVY\SDRAGYNKQWHPTCF VCAKCSEPL\DLIYFWKDGAP WCGRHYCESLRPR/CAPACDEI\ IFAEDYQRVEDLA WHRKHFVC EGCEQLLSGLGVHRHPGVQLL VPQLAASPKRSLKGCPTPQPESP GIPTEKDKPGCARDPSLRVPDV TSKPSEINQ
21016	51384	A	21142	1	1332	
21017	51385	C	21143	147	272	
21018	51386	A	21144	160	374	ETPVSSRCEKHVSSPHLCPGIHR AVSLSSH\STCGRSWRSELHGPO STNLSGNTLPLHFLFGAWQTG VFKM
21019	51387	A	21145	3	4366	LGAQQRELQEALGARAALAL LGRLQAERRGLDAAHERDVRE LRARAASLTMHFRARATGPAA PPPRLEVVHDSYALLVAESWRE TVQLYEDEVRELEEALRRGQES RLQAEETRLCAQEAALRREA LGLEQLRARLEDALLRMREEY GIQAEERQRAIDCLEDEKATLT LAMADWLRDYQDLLQVKTGL SLEVATYRALLEGESNPEIWIW AEHVENMPSEFRNKYYHYTDS LLQRENEWNLFSRQKAPLAS
21020	51388	A	21146	1	4617	RVIDCLEDEKATLTAMADWL RDYQDLLQVKTGLSLEVATYRI VEHVAVEGVSKLWKPLWQKS QSLVISSGVSTGGRLNLERLRR GPTPLASTESVKQVLVNNRMII DDEMVKTLAMSRTCSAPNPLT ADVKTWSRSYSEDAATGPVL GVASTVALLEGESNPEIWIWAE HVENMPSEFRNKSYHYTDSLL QRE\NERNLFS\RQKAPLASFNH SSALYSNLSGHRGSQTGTSIGG DARRGFLGSGYSSATT

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21021	51389	A	21147	2	435	
21022	51390	A	21148	1	1233	MCEEETALVCDNGSGLCKAG FAGDDAPRAVFPSIVGRPRHQG VMVGMGQKDSYVGDEAQSQR GILTLKYPIEHGIITNWDDMEK KKEAEELARNMAIQQELEKEK QRVAQQKQQQLEQEQFHAFEE MIRNQELEKERLKI VQEF GKVD PGLGGPLVPD/SGEALLRCVPHL NSLIHTAFRLSHNCKAS*ATCG GQVLETWSTEQLRKYSHNRWI APCGGAWAAVPTVSPVSQCQH CPGSGDMWNSLWKTDEE*1YH YPCSHPPQAKCWV*LLQHRERR RTFPHTGSAGPHHTGLDSCQF *AVREHGVR\GIHETTYNSIMKC DIDIRKDL YANNVLSGGTTMYP GIADRMQKEITALAPSTMKIKII APPERKYSVWIGGSILASLSTFQ QMWISKPEYDEAGPSIVHRKCF
21023	51391	A	21149	2	1273	PRVRPRVRPRVRS LGEEPLIPSV LRSPAHSATHMCEEETALVC DNGSGLCKAGFAGDDAPRAVF PSIVGRPRHQGVMVGMGQKDS YVGDEAQSQRGILTLKYPIEHG IITNWDDMEKI WAPLLTME RVSTWKRHPTLLTEAPLNPKAN REKMTQIMFETFNVPAMYVAI QAVLSLYASGRTTGIVLD SGV GVTHNVPIYEGYALPHAIMRLD LAG\RDLDYLMKIL/AKRGGY SFVTTAEREIVRDIKEKLCYVAL DFEK* \MATAASSSSLE\KSYELP DGAGLSPIGKWTL\CPETLFQP YFISNGVPLEFNDDNLTIPSMK\ CDIDIP*GLICPTMFLSGGTTHV PWALLDRIQKENPSPGPPGTMK IKNIAPPEREVTSVWD/LGGSILA SLSTFQAMWISKPEYDDAGPSI VHRKCF
21024	51392	A	21150	95	674	

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21025	51393	A	21151	1	1536	MGGGEQGTLRTAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRLTA APGAREQCGTHGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*G/PAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRLTA APGAREQCGTHGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGHVEASREYQMLSHV GNPDYPHALATEQATSPSTESG SAGFKGVALAMLSKITMCVRIG ILVFQQDQGSMDKAFSTTGGMG LVTYLLTCRAWRLQCGASYR AHDVNVLPGCSGPAALLLGDW FSLHSSDAVLPAQQGQMLSQG EADACITLPHLFPREVVFLLGL EAGGLIPGAEGPPEDMGLVRGP PAVAAGPPPRWLSPEFCLLQYS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGPFNIEHREWNTT ATWTRMISNHNKHSQRGRKMT ARLPCGGAPHFSDRTDDKWRR SSLLTRSGCQTERLLTSQTEPLP AGGSPHFSNGETGQRRSSPPQR GCDRPQALLTSKTEQQRKSASH ISYDERPGKDAPHFLDGMVAG KRRSSLSRLGSQA

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21026	51394	A	21152	689	2176	PATSPTSRAMAQPSAPAASMLL PCPECPSPGRFMTCCLSVSTFCS PSLRRPPGSIKSSGLGGG\SSRT SCRLSGVALGAGSCRLGSAGGL GSTLGG\NSYSSCYSFGSGGGY GSSFGG\VDGLLA\GGEKA\TMH NLIDF\LASYLDK\PCPWKEAN TELEV\KIRD\WYQRQ\APGPAR DYSQYYRTIEELQNKILTATVD NANILLQIDNARLAC/ADDFT K\FVETEALRL\SVEADINGL\R RVL\DELTLARADL\EMQIENLK EEAWPTLKERTTEGRRLNALR GQVGW*RSMLEMDAAPGVDL SRILNEMPSCVDHRVTRCINRP GAELKLGGSGWTEELKREVAT NSELVQSGKSKISEL\RTMQAL EIELQSQLSMKA\SLEGNLGGD RATAYCVQLS\QIQGL\IGSGED QL\AQLR\C\EMEQQ\NQDYKILL DVKTRLEQEIATYRRLLEG\ED AHLTQCKKEPVTTTRQVARTIVG KRSRD\GKVILLPRSRFHQTTR
21027	51395	C	21153	58	252	
21028	51396	A	21154	2	190	
21029	51397	A	21155	2	432	KMADGVVDHIDIYADVGEFNO EA EYGGHDQIDLYDDVISPSAN NGDAPEDRDYMDTPPPVPGYG PPPGPPPPQGGPPPPPGFPFRPP GPLGPPLD/TLAPPPHLPGPVPPG \APPPA\PHVEPSFLFLPPINSGH GLHSDRPRFH
21030	51398	A	21156	1	1070	MGGIGARAAAAGKGRRRRARA PPGLPPPTSDGGGGAASSLR RLHAAPPPGPSAAGSASRVPTI GSEAAPAREDRRLHSGRVRAS GSPRLTRPRPVKRRGRTRGGGA PRQGSAAARPGGKGAHSAVAS ARAAAGPGSASRPHGAASAAG TWALTYLVLEFADIRVNVYVV HAVRHLPSCAAAAAASCRF ALVGVGSEASSKKLMDLLPKR ELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGGRRGRFPGA VPGGDRFPGPAGPGGPPPPFQD PSVNSDPVCGTFG/EH*PPGYQT PSNLSVRPMAKPKPEGTDLSRS REGFFKSRFAPN

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21031	51399	A	21157	63	1750	MKMAGGVNHIDIYADVGE*FN QEAEYGGHDQIDVHDDAISP ANNGDAPEDRDYMDTLPTVG DDVGKGAAPNVVYTYTGKRIA LYIGNLTWWTTDEDLTEAVHS LGVNDILE\IKFFENRANGQSKG FALVGVGSEASSKKLMDLLPK RELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGGRRGRFPGA VPGGDRFPGPAGPGGPPPPFA GQTPPRPLGSFQGPAGPPGPP PGQVLPPPLAGPPNRGDRPPPV LFPGQPFQPPPLGPLPPGPPPV PGYGPPPGPPPPQGGPPPPGPF P\PRPTGSNLGHPLTLAPPSAFP GP\PPGAPPPSPHVNPAPFPPT NSGMPTSDSRGPPPTDPYGRPP YDRGDYGPPGREMDTARTPLS EAEFEEIMNRNRAISSAISRAV SDASA/GVDYGSAIETLVTAISLI KTIPKYPADD/RCTKFLISSLQD CLHGIESKSYGSGSRRRERSRER DHSRSREKSRRHKSRSDRHDD YYRERSRERER\HRDRDRD\RD RERDREREYRHR
21032	51400	A	21159	1	96	TNFKSGLLGAAED*HCPIASE AP*TITDAEL
21033	51401	A	21160	1	1056	MWKGPKGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTDQPKHELTNFK SGFRGVRLQGRLPWSFTLSGK SRFSGEGASTPTPSLCVSTPSPPF WGARNTPQLLLHPEWQ/CPLF* RSKYPNLVSLCPSPLFPRPDLLS L/SAQSLISAPQPLISLCPNPLFPC PDLLSLHPNPLFPRPNPFPAFLE GACYKCQKSGHQAKECLQPGI PPKLRPICAGPHWKSDCPHTLA ATPRAPGTLAQGSLTASQIFLA
21034	51402	C	21161	283	408	

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21045	51413	A	21172	266	1003	SCMCLALDPCNHGEGHQPDFS GVKFRRHGADNHEASAATATT AAATTVAIAAAAAAAAAAAR VTLTGSHFQSPWNSGPRLSDSF PDLLSLATED*RCPIASEVPWTI TEAELRVTLTVEGKSIPCLIDTG ATHSTLPSFQGPVSLAPITVVGMI DGQASKPLAKTPPLWCQLGQH SFMHSFLVIPHL/CPIFLIRGRNIL TKLSASLTIPGSTANISLVAFFP NPKPPLCPLTSPQYHPLQDLPS A
21046	51414	A	21173	2	245	LTALLRKS LDPRLISTGENTQTA ETMGPLSAPPCTQHITWAKGLLL TAETPKPSISSNLNPRGGHGRL CALILLILEDSG
21047	51415	A	21174	3	324	
21048	51416	A	21175	3	552	
21049	51417	A	21176	3	435	
21050	51418	A	21177	3	1459	GAVRTWGRGFQTEKCQASLLN FWNPPTTAQVTIEAEPKVS KDVLLLVHNL PQNL AGYIWK GQMKDLYHYITSYVVDGQIIY GPAYSGRET VYSNASLLIQNVT REDAGSYTLHIVKRGDGRGET GHFTFTLYLIPWTL LYL* RSLA QVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCRENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSNLYP REDMEAVSLTCDPETPDASYL WWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKPYI TINNLPRENKDVLAFTCEPKS ENYTYIWWLNGQSLPVSPRVK RPIENRILILTQCSREMKQGPY QCEIQDRYGG\IRSYPTLECP/ HITTKHSGLYACSVRNSATGME SSKSMTVKVSAPSGTGHLPLN

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21051	51419	A	21178	3	1445	IRADPAHELENCSCPGKRLSTE RGRTAQLTAVLREFLDPRLISTE ENTQAAETMGTLSPAPPCTQRIK WKGLLLTASLLNFWNLPTTAQ VTIEAQPPKVSEGKDVLLLVHN LPQNLTGYIWYKGQMRDLYHY ITSYVVDGEIIIYGPAYSGRETA YSNASLLIQNVTRDAGSYTLH IHKGDDGTRGVTGRFTFTLHLET PKPSISSNLNPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSETNRTLFLLGVTKYTA GPYECEIRNPVSASRSDPVTNL LPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILILPSVTRNE TGPYQCEIRDYGGVRSRSDPVT NVLYGPDLPRIYPSFTYYRSGE VLYLSCSADSNPPAQYSWTINE KFQL\QGQKLFIP\HITTKHSGLY V\CSVRNSATGKESSKSMTEV SGKWIPASLAIGF
21052	51420	A	21179	3	1380	TAQLTAVLREFLDPRLISTEENT QAAETMGTLSPAPPCTQRIKWK GLLLTASLLNFWNLPTTAQVTI EAEPTKVSEGKDVLLLVHNL PQNLTGYIWYKGQMRDLYHYITS YVVDGEIIIYGPAYSGRETA YSNASLLIQNVTRDAGSYTLH IHKGDDGTRGVTGRFTFTLHLET PKPSISSNLNPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSETNRTLFLLGVTKYTA GPYECEIRNPVSASRSDPVTNL LPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILILPSVTRNE TGPYQCEIRDYGGVRSRSDPVT NVLYGPDLPRIYPSFTYYRSGE VLYLSCSADSNPPAQYSWTINE KFQL\QGQKLFIP\HITTKHSGLY V\CSVRNSATGKESSKSMTEV SGKWIPASLAIGF

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21053	51421	A	21180	2	1341	TEGGRTAQLTAMLRQLLDPRLI STEENTQAAETMGPLPAPSCTQ RITWKGLLLTASLLNFWNPPTT AEVTIEAQPPKVSEGKDVLVV HNLPQNLPGYFWYKGEMTDLY HYIISYIVDGKIIYGPAYSGRET VYSNASLLIQNVTRKDVAGTYT LHIIK\RGDETREEIRHFTFTLYL ETPKPYISSSNLNPREAMEAVR LICDPETLDASYLWWMNGQSL PVTHRLQLSKTNRTLYLFGVTK YIAGPYECEIRNPVSASRSDPVT LNLLPKLPIPYITINNLNPRENK DVLAFTECPKSENYTYIWWLN GQSLPVSPGVKRPIENRILILPSV TRNETGP\YQCEIRDYGGIRSY PVTNLNLYGPDLPRIYPSFTYYR SGENLDLSCFTESNPPAEYFWPI *GKFQQSGQKLFIPQITRNHSG LYACSVHNSAAGKEISVSLFRH
21054	51422	A	21181	1	1532	MTQFPMDKRQGRSRVAITNT AVTSLEWVPFHAFAPRSTLVS QQLRSTERGRTAQLTAVLREFL DPRLISTEENTQAAETMGTLA PPCTQRIKWKGLLLTASLLNFW NLPTTAQVTIEAEPTKVSEGKD VLLLVHNLPQNLTGYIWAYKGA MR\DLHYHYVTSYVVDGQIIKYG \PAYSGRETAYSNASLLIQNVIT REDVAGSYTLHIIKGDDGTRGVT GRFTFTLHLETPKPSISSSNLNP ETMEAVSLTCDPETPDASYLW WMNGQSLPMTHSLKLSETNRT LFLLGVTKYTAGPYECEIRNPV SASRSDPVTNLNLLPKLPYITI NNLNPRENKDVLNFTCEPKSEN YTYIWWLNGQKPP/VSSPRVKR PH*KTGSLIPTPVFTRNETGP\YQ CEIRARYGGVIRSDPVTNLNLY GPDLPRIYPSFTYYRSGGKSSY LSCFCGTSNPP\AQYSWTIN*K VFSLPGTKALYSRHITTKHSGL YVCSVRNSATGKESSKSMTVE VSDWTVP
21055	51423	B	21182	28	29751	

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21056	51424	A	21183	158	1660	EASLLEDDDDGMVYLRPLTSHQ YRTAQLRAMLRKFLDPRLSSTE ENTQAAETMGPLSAPPCTQRIT WKGLLLTASLLNFWNPPTTAQ VTIEAEPTKVSKGKDVLLLVHN LPQNLAGYIWYKGQMKDLYH YITSYVVDGQIIYGPAYSGRE VYSNASLLIQNVTRDAGSYTL HIVKRGDGTGETGHFTFTLYL ETPKPSISSSNLYPREDMEA VSL TCDPETPDASYLWWMNGQSLP MTHSLQLSKNKRTLFLFGVHK VHCRDPMECEIREPS*VASRS*P SSPWNLPLPKLPKPYITINNLNP REKKDVLAFCTCDPKSRNYTYI WWLNGQSLPVS PRVKRP/ENR DPSFLP/SVTRNETGP/YQCEIRD RYGG\IRSYPTLVNLYG\PDLP RIYPFISPIYHFREENLRTLSCFC GTFNPPGRVFLGTINGGSFQVIQ GQKALYSPRITTKHSGA/LYAW LCSVTSRPLAWESSQIPWTVKV SGSFQGTGTSSWGLNPL
21057	51425	A	21184	927	1378	QPPTLRSWDCWFAWGRQLM SSP/STEPQVCFTIEGHEIDFLG TGMAFSVLISCPG*LSSRSVTIR GILG*PVTRYFSHLLSCNWETLL FSHNAKTQGGGTLTPKPSKSH RPWAVRGLAPGPAAAVLNFSP GLSCLPTGQGLGPAAHHA
21058	51426	A	21185	1	221	ILLAQLESQDGDILRQRDEFDLL VAGEICRFSALIEELE\EKNERPA RELLTVRPEPEPCPTCAVLRLLH LCLA

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21059	51427	A	21186	335	1963	VCDPALPPWAKQREWALEGSH SSRTSMGLLVASVTSIGRWKF NCPI/CVQGTLEAGSLSNCG/H KNFCRACLT\RYCEIP/GPDLEE SP\TCPLCKEPFRP/GSFRPNWQ LANVVENIERLQLVSTLGLGEE DVCQEHGEKIYFFCEDDEMQL CVVCREAGEHATH\TMRFLEDA A\APYREQIHKCLKCLKEREI QEIQSRENKRMQVLLTQVSTKR QQVISEFAHLRKFLLEEQQSILLA QLESQDGDILRQRDEFDILLVAG EICRFSALIEELEEKNERPAREL LTDIRSTLIRCETRKCRKPVAVS PELGQRIRDFPQQ\ALPLQREMK MFLEKLCFELDYEPAHISLDPQ T\SHPKLPLVPRTIQR\AQFS*QM GRTSPDNPQ\RF\DRATCVSRPT LGITGGRHTWVVSIDLAHGGSC TVGVVSEDVQRKGELRLRPEE GVWAVRLAWGFVSALGSFP\TR LTLKEQPRQVRVSLDYEVGWV TFTNAV\TREPIYTFTASFTKVI PFFGLWG\RG\SFSLSSLRSSY LLSSKYRTHINPSTMWT
21060	51428	A	21187	217	397	
21061	51429	A	21188	529	1526	YCGRVGELAAGELVFLWSRVG PQNPRSSRLPPPTLAMFLTRSEY DRGVNTFS\PEGRLFQVEYDIEA IKLGSHSQLAPRHREGV\ALAV\ EKRIYLPHLMGAQAGI*GKLLG DLMLHIGLLPIEWGLICLMLKT FNSIKSRVGRHR\YPWGSPYNG GH*QWESFEPKLCPNLGFSSFG EEDAESRVPM\SRPLGSSHLFIW EELYEKGTPSLFP*GTPFWGPFV PVWMARSQFGSGFQRGAPRAP LPRKFPPTSPMTFERSPPSPSPHP SLKQVMGGRKLNANQTIEPRPT VPALAENFPHCSQRKKLEEVIQ GHFKESWILRTSLGTISVLNNVP
21062	51430	A	21189	211	382	TSVSPSVPLPC*RHPGEPQTGN NASNGTSSSRDESPPVRVPPPP QTAVAITLSTA
21063	51431	A	21190	3	96	FFFPPQKYD*DR*EHPRFHKTLR NWRVGAQ
21064	51432	A	21191	1	1320	
21065	51433	A	21192	1	339	

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21066	51434	A	21193	289	3694	MAFVPVIPESYSHVLAEFESLDP LLSALRLDSSRLKCTSIASVRK WLALGSSGGGLHLIQEGWKH RLFLSHREGAISQVACCLHDDD YVAVATSQGLVVVWELNQERR GKPEQMYVSSEHKGRRTALC WDTAILRVFVGHDHAGKVSIAK LNTSKQAKAAAAFVMFPVQTIT TVDSCVVQLDYLDGRLLISSLT RSFLCDTEREKFWKIGNKERDG EYGACFFPGRCSGGQQPLIYCA RPGSRMWEVNFIDGEVI
21067	51435	A	21194	2	128	
21068	51436	A	21195	1041	2238	LLHPAQRSLSKDGTKESEDAA LMGEEGKPEINQQLSLESMELD ELALEKYPIAAPLVPEKSSD GVGNPEAKILSGTPTYKRRVISL LVTIENHTPLVELSEYLGNTLS EILDSPWEGAKNVYKCPECDQ NFSHSHSYLVLHQKIHSGEKKHK CGDCGKIFNHRANLRTHRRHT GEKPYKCAKCSASFRQSHLSR HMNSHVKEKPYTCSICGRGFM WLPGLAQHQKSHAENTYEST NCDKHFNEKPNLALPEETFVSG PQYQHTKCMKSFRQSLYPALSE KSHDEDSERCSG\CGDNFFSFSK FKPLQCPDCDMTFPCFSELISHQ NIHTEERPH*\CKTCEESFALDSE LACHQKSHMLAEPFKCTVCGK TFKSNLHLITHKRTHIKKHHVK
21069	51437	C	21196	156	389	

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21070	51438	A	21197	1	2466	MLSRLFRMHGLFVASHPWVVI VGTVTLTICMMSMNMF TGIAG LFTIFSSFVFSTVVIHFLDKELTG LNEALPFFLLLLIDLSRASTLAKF ALSSNSQDEVRENIARGMAILG PTFTLDALVECLVIGVGTMSGV RQLEIMCCFCGCM SVLAN YFVF MTFFPACVSLVLELSRESREGR PIWQLSHFARVLEEEENKPNPV TQRVKMIMSLGLVLVHAHSRW IADPSPQNSTADTSK VSLGLDE NVSKRIEPSVSLWQFYLSKMIS MDIEQVITLSLALLLAVKYIFFE QTETESTLSLKNPITSPVVTQKK VPDNCCRREPMLVRNNQKCDS VEEETGINRERKVEVIKPLVAET DTPNRATFVVGNSSLLDTSSVL VTQEPEIELPREPRNEECLQIL GNAEKGAKFLSDAEIIQLVNAK HIPAYKLETLMETHERGVSIRR QLLSKKLSEPSSLQYLPYRGY NYSLW*WGACCENVIGYMPPI VGVAGPLCLDEKEFQVPMATT EGCLVASTNRGCRAIGLGGGAS SRVLADGMTRGPV VRLPRACD SAEVKA WLETSEGFAVIKEAFD STSRFARLQKLHTSIAGRNL YIR FQSRSGDAMGMNMISKGTEKA LSKLHEYFP*NCRF*AVSGNYC TDKKPAAINWIEGRGKSVVCET VIPAKVVREVLKTTTEAMIEVN INKNLVGSAMAGSIGGYNAHA
21071	51439	A	21198	236	3022	GEGSFRSATALTGARLSVGAGV RWPLVRSGGSKDSVATMLSRL F RMHGLFVASHPWVIVLGTVT LTICMMSMNMF TGNKICGWN YECPKFEEDVLSSDIILITRCIA ILYIYFQFNLRQLGSKYILGIA GLFTIFSSFVFSTVVIHFLDKELT GLNEALPFFLLLLIDLSRASTLA KFALSSNSQDEVRENIARGMAI LGPTFTLDALVECLVIGVGTMS GVRQLEIMCCFCGCM SVLAN YF VFMTFFPAC
21072	51440	A	21199	1	450	CKSRGSNLRVHFKN TRETAQAI KGMHIRTATKY LKDVT LQKQC VPFRRYNGGVGRCAQAKQWG WTQGRWPKKSAEFLVIEHIQV NKAPKMRRRTYRAHGRJNPYM SSPCHIEMLTEKEQIVKPPEEEV AQKKKISQKKLKKQKLMARE

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21073	51441	A	21200	1	876	
21074	51442	A	21201	1	1725	
21075	51443	A	21202	278	889	SVKMVRYSLDPGGTTPRKSC/S QRGSNLRVPFKDHS*KLPQAHQ RVCHIRKSPTKY\LKDVHLTRN QCVPIPDYNG*QLGQVCRRHK QMGP GTTKGR\WPQKGVLKFL PAHALKTAE\SNAEL\KGLDVDS LVIEHIQVNKAP\KMRRRTYR AHGRINPYMSSPCHNIEM\ILTEK EQIVPKPEEEVAQKKKISPEETE RNKNLLARE
21076	51444	A	21203	1	1923	
21077	51445	A	21204	1	280	
21078	51446	A	21205	1	109	
21079	51447	A	21206	1	638	
21080	51448	A	21207	1	396	
21081	51449	A	21208	26	969	HGVGCRDGLPMECRFLCQIFM AFMQMNSYCARHKKATRRTV* /CRNQDMTESSQKWTGKGS AV EHLVESGEWTMHPARPVSACR CPSDCHVPLSPGACWPKLECLS EGSSYISDGKEYLFYLNVCGET EIQFCNKKQAAVCQVKKSDTS QVKAAGRYHNQTLRPSESSWS LLFVVLVFFPGVHSPFSLDEALT LCPQNCLPPGTVSAPLNCVYPL ALSAAVALAAGSELMECHRLV NSLEVSTAAQGQSSKTQFYACL CRLSTHLWKYSEESGRRLVCSF YQPSELNPALNLSFLVGTRLQE GAALLFIQSGFTIV
21082	51450	A	21209	1	465	
21083	51451	A	21210	217	453	
21084	51452	A	21211	1	840	
21085	51453	A	21212	1	663	
21086	51454	A	21213	176	957	DEPIGVPLLSAPPAGTTKIKADQ LHLQGAAPKICPCLQDGS LGQH YCPFVSFSRYYINLCQKIYKGPL GCSERASICRRTTTGDVQVLGL VHTQKILGVIGPRVVVTTSKRY PCGGNK TASSVIELTCTKPVGR PAFKRFEID SCTYYFSWDSGAA CAVKPQEVQM VNGTITNPINGK SFSLGDIYFKLFRASGDMRTNG DNYLYEIQLSSITSSRN PACSGA NICQVKPNDQHFSRKVGTS DKT KYYLQGNPWLP TKFHI

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21087	51455	A	21214	3	7616	SPVEPRSPRAPAPSPPPPLPWRR DPVPGAAPSSRAPLASRPPRSSG PGAMGAAAGRSPHLGPAPARR PQRSLLLLQLLLLVAAPGSTQA QAAPFPELCSYTWEAVDTKNN VLYKINICGSVDIVQCGPSSAVC MHDLKTRTYHSVGDSVLR SAT RSLLEFNTTVSCDQQGTNHRVQ SSIAFLCGKTLGTPEFVTATECV HYFEWRTTAACKKDIFKANKE VPCYVFDEELRKHDLNPLIKLS GAYLVDDSDPDTS
21088	51456	A	21215	2	184	VNCQPLGMISLMKR\PPGFSPFR SSRIGEIKEETTSHLR SCEYKGR PPKAGAEPASEREVS
21089	51457	A	21216	1	203	
21090	51458	A	21217	1	1107	
21091	51459	A	21218	1	915	
21092	51460	A	21219	1	1932	
21093	51461	A	21220	2	746	

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21094	51462	A	21221	1	2157	MGFPLRPSPAHLSSGRQQFPAK EERLLLSLTQESQSEEIDCNDKD LFKAVDAALKKYNSQNQSNQ FVLYRITEATKTVGSDTFYSFK YEIKEGDCPVQSGKTWQDCEY KDAAKAATGECTATVGKRSST KFSVATQTCQITPGGWFILWHC PGGKLTISDYPNSSRVLHCTQC VQGLNRRTRRHKTCPLQAAS QIEERIGFEGRPGLESFRAPCLL ASPFPCLEKGAEGPVVTAQYDC LGCVHPISTQSPDLEPILRHGIQ YFNNNTQHSSLFMLNEVKRAQ RQAAP/GREFSSMDTFEGYEGA EDMEKLAGPFPVG*QSRNLFLQ IRFPGEERKHPGRKRRTR*GSN GDRQHQEGACWGVHAG*LLR GRRLVSRGRGARGPPPRRAAL PAVAPAPRLQSARIPERGDGDD GVRRWGHREAIGS*GQS/LS/CN GIIILIKEERLPCPFHCISLMKRPP GFSPFRSSRIGEIKEETTVSPPH SMAQAQDEERDSGKEQGHTRR HDWGHEKQRKHN LGHGHEQ RDQGHGHRGHLGHGHEQQ HGLGHGKFKLDDDLHQGGH VLDHGKHKHGHGHEGKHKNK GKKNKGKNGWKTEHLASSED STTPSAQTQEKTEGPTPIPSLAK PGVTVTFSDFQDSDLIATMMPP SPAPIQSDDDWPDIQIDPNGLSF NPISDFPDTTSPKCPGRPWSVS
21095	51463	A	21222	207	424	HHINCVLLYLQSHLRS\CEYQG\ RPPKAGAEPASE\REVSLTNWA ESSTPRHIAPTTASNLEMEGQE ERWDRI

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21096	51464	A	21223	170	1487	IMKLITILFLCSRLLLSLTQESQS EEIDCNDKDLFKAVDAALKKY NSQNQSNNQFVLYRITEATKTV GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKAATGECT ATVGKRSST\KFSVATQT\CQITP AEGPVV\TAQLRTCLG/CVWHPI IQRQSPDLEPILRHGIQYFNNNT QHSSLFTLNEVKRAQRQVVAG LNFRITYSIVQTNCSKENFLFLT PDCKSLWNGDTGECTDNAYIDI QLRIASF SQNWDIYPGKD VVQ PPTKICVGCPRDIPTNSPELEETL THTITKLNAENNAISYFKIDNVK KARVRVVAGKKYFIDFVAR\ET TCSK\ESNEELTESCETKKLG\Q RLG\CNAE\YVVVPWEKKIYPT/ VFNCSTTGEWIFT*WKRPPRVF SPFRS\SRIGEIKEET\TSHLRSCE YKGRPPK\AGAEPASEREVS
21097	51465	C	21224	21	281	
21098	51466	A	21225	204	441	QISQVLIICNQK*VILTGNFLDT YF*TTFINKKIDELRLCA/CAVA HSYNTTLCKKPRWKDCLRPV QDQPVQHSETLSL
21099	51467	A	21226	333	604	SSDRITKPPSAEFLPLQRTFLHSL QDTVIELLH*DLETPLTLVLQNH PSLPRPIAPPTLCPQTRWPHLR GHQGILAASHILETALAAIF

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21100	51468	A	21227	846	3269	GFMEVLRDPIKKNSSSESKPAQS GFSRGN SPLSCPESVEASPAVNE KSVYSTHNYGTTQRHGCRGLP YADHNYGAPPPPTPPASPPVQTI IPRSDLNGLPSPVEERCSDSPNS EGETVPTWPCGLSQDGFLLNC DKCRGMSRGKVIRLHRRKQDN ISGGDSSATESWDEELSPSTVLY TATQHTPTSITLTVRRTKPKKR KKSPEKGRAAPKTKKIKAFREG SRKSLRMKNPSEAQNLDENTT EGWENRIRLWTDQYEEAFTNQ YSADVQNALEQHLHSSKEFVG KPTILDTINKTELACNNTVIGSQ MQLQLGRVTRVQKHKILRAA RDLALDTLHIEYRGKVMLRQQF EVNGHFFKK\PPFVLFLLQNL NGVEMCVDARTFGNDARFIRR SCTPNAEVRHMIADGMIHLICIY AVSAITKDAEVTIAFDYEYSNC NYKVDCACHKGNRNCPIQKRN S*CYRTATPTTSSKPTHHSRD *T*KSRRKELEMEQQNEASEEN NDQQSQEVPEKVTVSSDHEEV DNPEEKPEEEKEEVIDDQENLA HSRRTREDRKVEAIMHAFENLE KRKKRRDQPLEQNSDVEITTT TSETPVGEETKTEAPESEVSNSV SNVTIPSTPQSVGVNTRRSSQA GDIAAEKLVKPPPAKPSRPRPK SRISRYRTSSAQRLKRQKQANA QQAELSQAAL EEGGSNSLV TPT
21101	51469	A	21228	2	197	CRPPSPRPVRAARPARPQASFSR EPPPRRMAP*SKRRRQSARGPV RPSRVWARIKAKPYSCCCQL
21102	51470	A	21229	4	488	GSYDINRQDTFQKDRQRVGPSG ASQKTEGFLRLLYSGLIIAHCS LEILGRNDPPASASKVAETTD GSLSLANT*PPTPR/VTSQTANA TSQAAPALPLGSVPGRRAADPR PLLA WAPAPPGGT SRNTHPAP DGLDMLVPIGDGVLGGNCFRN QCKSVSTS
21103	51471	A	21230	124	293	

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21104	51472	A	21231	239	1393	IYPQISFQKKFVMFFFSEALCTA RAEEDCPIGLLNNPRTSRYSRL KPNSSLGGSESRTQMGPLPPP PKSPDGARVPVPGCIKEAGPARG RSRLAPNPGALRRG/VGLGR*S ARI*GLVSKAAAGQGGEARRGE AT*ARGALGRTTAGSFNAGWL TLDGARQQPGRQTPTRIPSCVA DNAAGPSRTTTPD/EALRPLRG GPACTAPASFDSRAPYSASSAPS EGRWPSRGFPPI/PLYSQLPETR SHEWQAASKIQPRKASTSQ*SA RMEAT*QQWAGPPAEP*SLWFP RLARRSVVHWRTPY/ISSITS LPVAAGIPEDSGPGSTQSSSRPGN TSSSSRPPPPPPPP/QPLPPPPA GLASPRPVRARRPARPQASFSR EPPRRMAP
21105	51473	A	21232	107	234	
21106	51474	A	21233	224	227	LPQPGPGRRRACLRQASPRQYS RLPGRPPPSG*SW
21107	51475	A	21234	67	607	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLLI MLGSVCHRGSPCGLSTHVEILL LEHQDAYQAGIVFPDCFYPSIC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLWEKDTEKLVAF LFGITSHMAADVSWHSLGLEQ GFLRTMGAI
21108	51476	A	21235	54	193	
21109	51477	A	21236	1275	1764	STKCQYFSHLLLLFSASESKQLL LYSAFFRYVPVKDLLGIYEKLYI CFISLLQTGL*RYQE*YHIHFIFS FSLP*LYPTYSTKSPFLVEQFQE YFLGGLDDR*NSCL*RSR*MAN SFDCFLSDSVLQGVVFSVVTSL FLFLFNSSKMQKNDFHRNLTTTS
21110	51478	A	21237	297	428	QCQRGPGCSRGHGI*I*EHWTA FGLDLRQWFARGSWASGHGP

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21111	51479	A	21238	3247	5958	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLL MIVMASLCHRGSSCGLSTHIEIG HRALEFLHLHNGHVNYKELL EHQDAYQAGTVFPDCFYPSLC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKL VAF LFGITSHMVADVSWHSLGIEQG FLRTMGAIDFHGSYSEAH SAGD FGGDVLSQFEFNFNYLARRWY VPVKDLLGIYEKLYGREVITEN VIVDCSHIQFLEMYGEMLA VSK LYPSYSTKSPFLVEQFQEYFLG GLDDMAFWSTNIYHLTSFMLE NGTSDCSLPENPLFIACGGQQN HTQGSKMQKNDFHRNLTSSLT ENIDRNINYTERGVFFSVNSWT PDSMSFIYKALERNVRTMFIGG SQLSQKHVSMP LRHHYFLSFPY ARLGWAMTSADL\NQDGHGD LRGWGAPGLTAAPAHIPHSGR VYLIYGNDLGLPPVDL DLDKEA HRILEGFQPSGRFGSALAVLDF NLDGVAPDLAVGAPSVGSEQLT YKGAVYVYFGSKQGGMSSSPN ITISCQDIYCNLGWTLAADV N GDSEPD LVIGSPFAPGGGKQKG IVAAFYSGPSLSDKEKLNVEAA NWTVRGEEDFSWFGYSLHGVT VDNRTL LLVGSP TWKNASRLG HLLHIRDEK KSLGRVYGYFPPN
21112	51480	A	21239	2	403	VVAEEDTEL RDLLVQTL ENSGV LNRIKAELRAGVFLALEEQEKV ENKTP LVNESLKKFLNTKD LQ GLEGREN LARDLGII EAEGTVG GPLLLEVIRRCQ QKEKGPTTGE GALDLSDVHSPPKSPEGK TSAQ
21113	51481	A	21240	3	1699	

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21114	51482	A	21241	3	1812	APRLKMGLHPNKPVSQSRVVN DGQCKLHAAVDSRDPDPGTR RVSSGGTGLPGPGRGPGLPAGA WLSAEGRGAGGSGDCGPSSGS AEPTQRPPRPSALPGAIPPLHLG LAPFRLASEAVAEQAPPPAPTLS FGAQWSGAPQGSVSSVNPEGA GPARCASGRGFGCVGRVARAR SVPCCGRWPLARLRRLSWRSK MAATAAAV\VAQEDTEL RDLL VQTLNSGVLNR\IKAELRAAV FLALEEQEKVENKTPLVNESLK KFLNTKDGR LVASLVAEFLQFF NLDFTLA\VFQPETS/TIF*LLF*L QGLEGREN LARDLGIIIEAGTV GGPLL\LEVIRRCQKEKGPTTG EGALDLSDVHSPPKSPEGKTS QTTPSKIPRYKGQGGKKKTS AGDKKANDEANQSDTSVSLSE PKSKSSLHLLSHETKIGSFLSNR TLDGKDKAGLCPDEDDMEGDS FFDDPIPKPEKTYGLRKEPRKQ AGSLASLSDAPPLKSGLSLAG APSLKDSESKRGNTVLKDLKLI SDKIGSLGLGTGEDDDYVDDFN STSHRSEKSEISIGEEIEEDLSVEI DDINTSKLDDLTQDLTVS QLS DVADYLEDVA
21115	51483	A	21242	419	651	TNIFSR LNPQTKNVFCARQLSS* SVTI*GVLGQAVTRYFSQALSC DWGTL LFSRAFLIMPESPTPLLG RDILAKAGA
21116	51484	A	21243	555	888	RTSSRRTPNPCSRIRKNYFKFH MEPKKSP/S*PRQC*AKRTKLEA SCYLTSNYTTRLQ*PKQHGWG TIRSFSSHEAIFQTITWGKTLDN TRLSRTEVPAAFHSA LCPWF IET
21117	51485	A	21244	728	1428	
21118	51486	A	21245	238	505	INVGRHHVILQGLSCPGQLSSRS VTI*G\VLGQAVTIYFSQPLSCD WRTLLFSHVFLIMPESPTPLLGR DILLYVCIGRFPIFRADCR T
21119	51487	A	21246	940	1434	QLAPCTLTEPRVCLTIEGQEVN CFLDTRAAFVLLSCPRQLSSRS VAIRGVLGQAVT*YFSQPLSCD WGTLRFSHAFLIMPESPTPLLG RDILAKAGAIHEKRKAFMRKR EIKKQARSSKVHTSAASSCART APLGESFAEHLIKIADFTPPSSSS PCTTLFFS

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21120	51488	B	21247	747	1138	
21121	51489	A	21248	1685	2051	SSSRTEGARGKRQPMPS/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTLLGRGILAKAGAIH HAVLVTAAL
21122	51490	A	21249	2	1014	GGAGPVVLRRAACSPGPAPR AARPPAMEPGPDGPAASGPAAI REGWFRETCSLWPGQALSLQV EQLLHRRSRYQDILVFRSKTY GNVLVLDGVIQCTERDEFSYQE MIANLPLCSHPNPRKVLIIIGGE GG\VL\REVVKHPSVESVVQCEI DEDVIQVSKKFLPG\MAIGYSSF EADTYMWGDGF*VSWKQKQ\D AFDVI\IIDSSDPMGPA\ESLFKES YYQLMKTA\LLREDGVL\CCQG \ECQWLHLDLIKE\MRQFC\QSL FPV/VLAYAYCTIPT/YTPSGQIG FMLCSKNPSTNF\QEPVQAVDN SSKVAKMQLK\Y\YNSEARATAA AFVLPE\FARQGLE
21123	51491	A	21250	3	418	FSYEKLLNWQEFVADLEHHSY RSFLGLTCLKQISTRTEDFIIDTL ELRRDMYILNESLTDPAIVKPL AEEMLSYARDDTHYLLYIDK MKLQMRERGNRQTVQLHVWV QRSRDICLKKFIKPIFTDESYLE LYRKLLK
21124	51492	A	21251	1	1704	
21125	51493	A	21252	1	3104	MFDTHQAARLLNLGRHSLDHL LKLYCNVDSNKQYQLADWRIR PLPEEMLSYARDDTHYLLYID KMRLEMWERGNGQPVLQVV WQRSRDICLKKFIKPIFTDESYL ELYRKQKKHLNTQQLTAFQLL FAWRDKTARREDESYYVLPN HMMLKIAEELPKPQGIIACCN PVPPLVRQQINEMHLLIQQARE MPLLKSEVAAGVKKSGPLPSAE \RENVKSQPVQVHL*QRPVLT A GRKLLPACTFYMPACWGL

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21126	51494	A	21253	2	2775	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTKASGG LPQFGDEYDFY\RSFPG\FQAF ETQGGDR/LCFQCMSRVMQVPM GC\RSNIKDRSKVTELEDKF\D LL\VDAN\DVILERVGILLDEAS GVNKNQQPVLPAQLQVPKTVV \SSWNRKAAEYGKKAKSETFRL LHAKNIIRPQLKFREKIDNSNTP FLPKIFHSNPMVQ\KPLPQALSK ERRERPQDRPE
21127	51495	A	21254	3	2668	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTKASGG LPQFGDEYDFYRSFPGFQAFCE TQGDRLQCMSRVMQYHGCRS NIKDRSKVTELEDKF\DLLVDAN DVILERVGILLDEASGVNKNQ PVLPAQLQVPKTVVSSWNRKA AEYGKKAKSETFRLHAKNIIR PQLKFREKIDNSNTPFLPKIFIKP NAQKPLPQALSKERRERPQDRP EDLDVPPALADFIHQRTQQVE QDMFAHPYQYELNHFTPADAV LQKPQPQLYRPIEETPCHFISL DELVELNEKLLNCQEFVLDLEH HSYRSFLGLTCLMQISTRTEFII DTLELRSDMYILNESLTDPAIVK VFHGADSDIEWLQKDFGLYVV NMFDTHQARLLNLGRHSLDH LLKLYCNVDSNKQYQLADWRI RPLPEEMLS\YARDDTHYLLIY DKMRLEMWERGNGQPVLQV VWQSRDICLKKFIKPIFTDES LELYRKQKKHLNTQQLTAFQL LFAWRDKTARREDESYGYVLP NHMMLKIAEELPKEPQGIIACC NPVPPLVRQQINEMHLLIQQAR EMPLLKSEVAAGVKKSGPLPSA ERLENVLFGPHDCSHAPPDGYP IIPTSGSVPVQKQASLFPDEKED NLLGTTCLIATAVITLFNEPSAE DSKKGPLTVAQKKAQNIMESFE
21128	51496	A	21255	98	286	HARPRHGPRLRCEVGLRCAPG YAGASARPTCECGDTRYCPQDP NQT*SRPVPIIAHRYCLTG
21129	51497	A	21256	1020	1280	
21130	51498	B	21257	153	3804	

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21131	51499	A	21258	159	579	PNVRWCPS\CYRNQDDHELQIT HGNKILCGIVWKKIAQVEQMR KFSRLEKQRTHVLSCSDLQAVR RFRGVVSEGSFEMGEKVYKRK DMFQLSLLTEQHGDSTLGSGSS YTQMPAENGSLVHTLVTAAPPF FAEKPHSITAG
21132	51500	A	21259	1	1290	MGASRSQKPGPSRDYSYTAGC DVDQRRRGAQKLSRSDTKRIV MSYGKKALKNDKFIRAESSSL EVRYRNQDDHELQIHTGTRFY VELCGFAVTRLRDPMLRHAA MALLPWRPPDYSASLLPDWLP VPSSKVVITYPGFTSIWAFSNT T/LCSEYKYYCEECSKQE/AHK RRKV*KLPMILAP/HLKRFBYK DQLHRFTKLFTRASLRGPRDER LKRVSRLFLSLVVVTSRVFDVL LRILHRLGQYVSSEYYVALMCS EGHGPGAEDVTELLQSHEKTE WMRSCFFWMTKSGVFDGIYLW NAFNQEGEDLYKENCKTLMKE VEDAQINGKTSYAHGSEYCK MSILPRILLQISRDDCFKIVLKF CVDHQKTKKCCMITLKSSVVQ LAFTIKISVSEMCAREDFVVVIS FQHSEVPSRQLARCTFKEGYT
21133	51501	A	21260	3	142	
21134	51502	A	21261	1	1368	

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21135	51503	A	21262	1	2420	MEEVAEAPQPIDPKPLATQPQSI IITTTITTTITTTTITTTTITTTIT IITTTITTTTITTTTITTTTITTTIT TITTTITTTITTTTITTTTITTTIT VITIITTTITTTITTTITPSSSSSPSS QADECWGEAEPLMSRQAHVW LRYRTGCREERPDQELTGSWG HGPRSTLVRAKAMAPPPPLAA STPLLHGEFGSYPARGPFRALT TSQALHIQRLRPKPEARPRGGL VPLAEVSGCCTLRSPSPDSAA YFCIYTYPRGRRGARRKATRTF RADGAATYEENRAEAQRWAT ALTCLLRGLPLPGDGEITPDLPL RPPRLLLLVNPFGGRGLAWQW CKNHVLPmiseaglsfnliqter QNHARELVQGLSLSEWDGIVT VSGDGLLHEVLNGLLDRPDWE EAVKMPVGILPCGSGNALAGA VNQHGGFEPALGLDLLNCSLL LCRGGGHPDLLSVTLASGSR FSFLSVAWGFVSDVDIQSERFR ALGSARFTLGTVLGLATLHTYR GRLSYLPATVEPASPTPAHSLPR AKSELTLTPDPAPPMASPLHR SVSDLPLPLQPALASPGSPEPL PILSLNCGGPELAGDWGGAGD APLSPDSTAGFTSWLSQGSSTLT RLRRGPRNSPILWAPTSHPCPG RGLHVRGPPDHLLPPLGTPLPPD WVTLEGDFVLM LAISPSHLSAD LVAAPHARFDDGLVHLCCVRS
21136	51504	A	21263	573	1025	RKQSHEDWRSTNKTGVHPSA RLYEPPWWAHTWTPPGGSKAP SDP/PLSHQLSPPAGQPHFASPEP TSKTPDPWPGNVFSSFLPQSLP ELRHTLYLPMGTTKPPGSSMIF YT*AQYPGTNSSATICRLLSYKS GQVYPNTGQAPPQQRGR
21137	51505	A	21264	48	327	EELEALRR\QRLAELQAKHGDP GDA\AQQEAKHREAEMRNSILA QVLDQSARAR\VSEQGLIEILKK VSQQTEKTTTVKFNRKVMDS DEDDDY
21138	51506	A	21265	1	400	
21139	51507	A	21266	786	905	VSEQGLIEILKK*CQLTEKTSTV KFNRKVMDSDEDDDY

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21140	51508	A	21267	907	1327	PRLLQRSTPSPWRTEELEALRR\ QRLADAAGQNTGDPGDAA\QQ EAKAPGQAEMRNSILAQVPGSS PAPAPRLSNLSHLVKP*KNLKP V\ENYPYTRLARYWTT*VMTGI RNQGFN*KSLKKVKAQ\QTEKT TTVKFNQKKK
21141	51509	B	21268	1	828	
21142	51510	A	21269	317	2390	KWPKMNPQQORMAAIGTDKE LSDLLDFSAMFSPVNSGKTRP TTLGSSQFSGSGIDERG\GTTSW GTSGQSP\SYPDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSESGFSLSYRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPPSPK PPTSMFASTFFMQDGTNSSL WSSSNGMSQPGFGGILGTSTSH MSQ\SSSYGNLHSHDRLSYPPHS VSPTDINTSLPPMSSFHRGSTSS SPYVAASHTPPINGSDSILGTK GNAAG\SSQTGDALGKALASIY SPDHTSSSFSPNPSTPVGSPSPLT GTSQWPRPGGQAPSSPSYENSL HSLQSRMEDRLDRLDDAIHVLR NHAVGPSTSLPAGHSDIHSLLG PSHNAPIGSLNSNYGGSSLVASS RSASMVGTHR\EDSVSLNG\NH SVLSSTVTTSSDTLNHKTQENY *RWPKKSQSGTVVPQEIKT\EN KEKDENLHEPPSSDDMKSDD* SSQKDIKVSSRGRTSSTNEDEDL NPEQKIEREKERRMANNARERL RVRDINEAFKELGRMCQLHLKS EKPQTKLLILHQAVAVIL\SLEQ QVRERNLNPKAACLKRREEEK VSAVSAEPPTTLPGTHPGLSETT
21143	51511	A	21270	2	153	QNASSPSKGSQLLTSKGTKLDG E*V**INRSRLQKVANNKLLWR KLKGQF

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21144	51512	A	21271	1	1230	MRKTQCKNAESSKNQNASFPP KDHNSLTAREQNWINEFGE LTVGFRRLNQEEVEFLNRPITGSE IEAIINSLATKK\GPEGFIAEFY* RKTQCKNAESSKNQNASFPPKD HNSLTAREQNWINEFGE LTVGFRRLNQEEVEFLNRPITGSEIE AIINSLATKKRTRGIHSRILLEVI TSFYVERGGNAMSFMGKGVTK STILCLLHLSHEMMAQAGSLE WMSLWFLPLGSHSEHIPTQQG LAWLIPLWVDRDPEVRFTSLGL GSALTTLETGCVANSCQNIS GGLWGTVVNILLDQSECSMVR RESQHHVDVAKVYHLHPPEW WPKLYLGPLDHSRELRSSVLEC MEQRLEVTLGTTTPYFSVPISKFI QAVTTKCLRLGASRFSVCLAGL SAAPEQKIHPPTQQFQQLPHD SVGFLQFSLHPKGNFGSGISSPD RSGDASHYSYPSLWQIRGTSRV KKQTWGSGNLKKWGIHKVQP QRLMMQNDTDEESI
21145	51513	A	21272	1	987	
21146	51514	A	21273	180	466	ARGSERAAASFASMYEGKKT KNMFLTRALEKILADKEVKKA HHSQLRKACR\VALEGNKAETE KQSPPHGEAKAGISTLPPVKSK TNFIEADKYF
21147	51515	A	21274	1	1224	
21148	51516	A	21275	251	5986	SCRCPRLQSPTSTSPFSLFLP LLLLPSSRWEPRVGRAAASFSA SMYEGKKTKNMFLTRALEKIL ADKEVKKAHHSQLRKS/CGRV ALEEIKAEKQSPPHG\EA KAGSSTLPPVKSKTNFIEADKYFLPF EL\ACQSKCPRIV\STSLDCLQK L\IAYGAL*LGNA PDSTTPGKKLIDRIETICGCFQGPQTDEGVQL QIIKALLTAVTSQHIEIHEGTVL QAVRTCYNILASKNLINQTTA KATLTQ
21149	51517	A	21276	46	214	KLRLTTTSVYAIPNRRRYDGFK LVQSCIFI*NFRS*DLRPPQYMPF LIEGGMTVSNSCRAAFSFTSLC RHRFSEAWLQNTNTGGFGSTF
21150	51518	A	21277	306	616	
21151	51519	B	21278	47	927	

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21152	51520	A	21279	660	890	GGKITASGSPVPRPSGA*ALPSG RCSTPRTSSCPRLPEPPGLAPSP PSAPANTTPDDSHAAP*GTRAH THRPPPH/PTAPSRPPTSPPVAT RTAPKAPQ/HHP/PTSCPTQRPT DPSVHEPSQPLATQHSTQPI*P VIVTQ
21153	51521	A	21280	3	213	
21154	51522	A	21281	349	2616	TTAMAHRKLESVSGMGLDHRV RPGVPVPHSQEPESDMELPLEG YVPEGLELAALRPESPAPEEQE CHNHSPDGDSSSDYVNNTSEEE DYDEGLPEEEEGITYYIRYCPED DSYLEGMDCNAGEEYLAHSAHP VDTDECQEAVEEWTDGAGPH HGHEAEGSQDYPDRQLPIPEDE PSVLEAHDQEEDGHYCASKEG YQDYYPPEANGNTGASPYRLR RGDGDLEDQEEDIDQIVAEIKM SLSMTSITSASEASPEHGPEPGP EDSVEACPPKASCSPSRHEARP KSLNLLPEAKHPGDPQGRGFKPK TRTPPEERLKPHEQVCNGLEQP RKQQRSDLNGPVDNNNIPKTK KVASFPSLVAVPGPCEPKNLID GIIFAANYLGSTQLLSERNPSK NIRMMQAQEA VSRVKRMQKA AKIKKKANSEGDAQTLTEVDLF ISTQRIKVLNADTQETMMDHAL RTISYIADIGNIVVLMARRRMPR SASQDCIETTPGAQEGKKQYK MICHVFESEDAQLIAQSIGQAFS VAYQEFLRANGINPEDLSQKEY SDIINTQEMYNDLIHFSNSEN CKELQLEKHKGEILGVVVVESG WGSILPTVILANMMNGGPAAR SGKLSIGDQIMSINGTSLVGLPL ATCQGIHGLK*PDHR*SFNIVS CPPV/TPRFLYSKRPLKYLQGF SVQNGHICSLMRGGIAERGGVR

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21155	51523	A	21282	20	771	TTPNKQHMMQTRAGSAWYLR SRGCSQGAPQKASSGSGGSSW NRSVATVPGIVLGWRRPELLSE RGCAEARGAGVAGRQRLQLTG VQGKSVVRGRGLLGRREWCR GGGAAPRPTPAGTPVPRRPGTR AGPEEGEGAGAGARAAPEPRP HALSPPAAFGADGQLRPLLLTS LRAHHPGRGGL!LTS!GTHQPR RGRQGTPPPASPSPA/PEEGALP GVLPL*PPSPSP/SESPPHPG GGALAVTRRTAAA
21156	51524	A	21283	1615	1985	LGSTRQAAPGQLRGHQAPAPN SDATAGQGRCRSAD*GWGSR EQI*ALPLSGPAPLPLPLPL PVPPSPPPSPSPSPPLPPGPP* PPLTFSVVTPGGLWCPPHRKSL NPTSKGVNEY
21157	51525	A	21284	3	501	
21158	51526	A	21285	1	2646	
21159	51527	A	21286	31	319	VIQDLHVPPREESAEQVDDPPE PVYRT*RGSPGPLHRAPLQPPF PARCGRRTTRAPGAPTTTTQT RELPPGSRPLRLPRVPPAQPPL PRWTAT
21160	51528	A	21287	3	147	
21161	51529	A	21288	20	600	PVTPRRTILPWALSVPALPLP* PHPPAGLVMSARTSRCSTPTTS LRSSG*GWRTPGSHSTIQRT LFDGSCPRSLPLEASINPARM VTPQPRPALQRRRSQQSWML GAGRKSLLPQLL*GPRPWTRQG CSIAPRRQTRESGSGRSTGVPPG LCWRVAS*HSSRTQRPRLQAA* GSLPSFPPLSTQWS

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21162	51530	A	21289	383	1800	TCSTQTSRLRNPPRRPRAASLPQT CSRSRPSRAHSLTGRPPRFQSQ MPSRSPCC*IC*NIRIDLCGSVTH SDGRFELVFSGKKLALRASSQD EAEDWLDREVREALQKVRPQQE DEWVNVQYPDQPEEPPEAPQG CLSPDLLSEPAALQGTQFDWS SAQVPEPDAIKESLLYLYMDRT WMPYIFSLSLEALKCFRIKNNE KMLSDSHGVETIRDILPDTSLG GPSFFKIITAKAVLKLQAGNAE EAALWRDLVRKVLASYLETAE EAVTLGGSLDENCQEEKNNTK HTTARNAFEENDFMENTNMPE GTISENTNYNHPPEADSAGTAF NLRPTVKQTETKWEYNNVGTD LSPEPKSFNYPLLSSPGDQFEIQ LTQQQLQSLIPNNNVKRLIAHVIR TLKMDCSGTHVQVTCAKLISRT GHLMKLLSGQQEVKASKIEWD TDQWKIENYINESTEASEQKE KSLEAASGTQDGVHVQEP RPQ APSPDLQQPVESTSSQPSSTV SETAREVGQGNGLQKAQAHDG AGLKLVSSTSPSQVCKLWW SAGLHTPPPVTSLGTVGLQGPQ QRFPKFPDFFHPLEISCGKVA
21163	51531	A	21290	2	667	
21164	51532	A	21291	84	377	RMGKHCFFENLLFRDGKAQRAC MGYTVCHSHIVGSGQKCWPA WPQVNLQPSRHQQVCCSLPRC AKCKTVFHQSCQAVVKKGCPR CAR* RKYQQQN VFA
21165	51533	A	21292	2	1168	FVLPVVS GRE TASSARRLRGCR SREPPSPRSSLRLVSCDSLREQL REWRCFQWWRMDWTPRLPSR HIIELEHLTFVNMDVGR CRAW LRLALNNGLMCEYLKLLQEQ ARLREYYQPTALLRDAEEGEFL LSFLQGLMSLSFELSYKSAILNE WTLTPLALSGLCPLSELDPLSTS GAELQRKESLDSISHSSGSEDIE VHHSCHKIRRNQKPTASSLSLD TASSQLSCSLNSDSCLLQENG KSPDHCEEPMSYDSDLGTANA EDSDQSLQEVLLFEFSKAQAASG TQDGVHVQEPHPQAPSPLDLQ QPVESTSGQQPSSTVSETAREV GQGNGLQKAQAHDGAGLKL VSSPTSPNISSMIQSTRPVHFCIV STKHCTWEKVGMDE

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21166	51534	A	21293	263	813	
21167	51535	A	21294	130	1094	NQPHRTKGCPNSSTECKNGSLT CDFMQVPILEMGKLRPEGERRV QDRDSNPSSLSPSAGLFQARWS* PPRPSFLLPAGKRRGCDGGGRG GGRVVRAGGAPLRVHRQGRAPP QSTEHWVHVRKPGGRPFYLP AQYVRELPALGNPAADAPPGPP IGTRSP*AARLRLPVRERGC GSG PQRPPSGAPRRGQLPVRPCAAR RREP/RAAAWRPACPPACTCGP\ GARAARAVPGRPDARRRLASR RQPRKQRQLQGLQRSGLLGVP AAPVAQRLRERLRGHPGGTRP AAVGDREAGTTPGAEAGRLAE DSARREPGLEENHSAQRRA
21168	51536	A	21295	2	3676	
21169	51537	A	21296	432	3453	DLAGEVLLCGGAADYGTGLGFS SPA VQEANRGALCSSIERGHIIS ELEHLTFVNTDVGR CRAWLRL ALNDGLMECYLKLLLQEQARL HEYYQPTALLRDAEEGEFLLSF LQGLTSLSFELSYKSAILNEWT TPLALSGLCPLSELDPLSTSGAE LQRKESLDSISHSSGSEDIEVHH SGHKIRRNQKLTASSLSLDTASS SQLSCSLNSDSCLLQENGSKSP DHCEEPMSCDSLGTANAEDS DRSLQEVLLEFS
21170	51538	A	21297	64	2996	LCPPAQAASQPQVELPAGWPQ PHALPLPHDRAQHLLGCAHP GRAKPELQQHHDCACAAQIPHI PVRQPYQHPDPLCQPRRPACP ALPIHGRQLLLQEPLQAGTGGG PGCPPWPGQPHPPVTQVQQPHC GAPQPAFQPGVSAVVLGRIVK LAPEDLANLTALRVLDVGGNC RRCDHAPNPCMECPRHFPQLHP DTFSHLRLEGLVLKDSSLSWL NASWFRGLGNLRVLDLSENFL YKCITKTKAFQGLTQL
21171	51539	A	21298	1	320	PVRTPPIPAFSPLKTLRIMSLHQF LLEPNCGRPQLCRGTMARKPAP RKH*KHISRQCRVVLFEYKIGES VGFFKAVIFLVFLRFHSILDQS FSLSSLLWKIVTLT
21172	51540	A	21299	1	443	
21173	51541	A	21300	1	1059	

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21174	51542	A	21301	116	1559	PRTARPSCAHARTVRAVATRRR RVHFRDLAAPSGLSVLRPRPT EPVRVDCPESANPPVRARPDSP DPRMFELLAASDARINGPFCAP RVLLAPLLGAFVTVSKIIVSKIAL SPK*SRRSHLLRRNGSQWVKV H\ELKEHNG\HITGID\WAPKSD RICH\CLGADRNCMLVWS\QK\D GVWKPMPG*FLRNLIGGGNFL* KWVPPRRTKFGCGGSGARLISV CYFESENDWWVSKHIKKPIRST VLSLDWHPNNVLLAAGSCDFK CRVFSAYIKEVDEKPASTPWGS KMPFGQ\LMSEFGG\SGTG\GW VHGVSFS\ASG\DRLGWGSATD ST\VSVA*CLQKVVQVSTLKTAE FLAAP*VVSFVSREPASGLPAH DC\CPMLFNYG*PRAALTFRLP KLDIPK\QSIQRNMSAHGNAFG NMDKRATTED\RNTAL\ETLH QNSITQVLYLLRWKQD\CRKF CTTG\IDGEPWTIWDFQDPRSL PSQGLRIM

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21175	51543	A	21302	1	2223	MKHYTRVQSSISPPAERQETHA WASPAVTSLESAACHELQEAD LSELSYPRIVSSSSSLQQYVAQG GSFPCFGMPWNFISGGAESTNA VISFANATTAVPMAVLSRRESS LANNPGVVNYSALPENENVGP EMPERPANSSKNSTETANYPTL MGNYNGQNTASLSVFIPPYFAE KIILTEMPGTTETNVENNSQTV YYPALSGNTSAPYPASSYLPITS NFVLERVAEMPETAGTNVKNN TQTVNYPSSGRGRSQGNASLS LSIPPKFGIERHLGCFLVLAIRSK AAMNIIYHIGFV*TQAFISLRY/ MPKSAVAGSYGNALQNVLHIE MLFKTESGPQMSYGTMSYSYE MKNNCDDQDDASASACLTPDFA LLPLNILVKVDNTENSVENTMN RSTLLDSDSGQDSSSSSVCIPP YGYLGDPKRNVRVLKIHLLAV QNMAKPKQAACYLVRILFSKEI LISSVDIHLKDSQSLDPNKMA ALREYLATTFPTCDLHEHGKD WQDCISGINSMIYCLCSEGKSTP KTVRKNNKRTNRVASASADR DQRGRDGGEGCSWMFQPMNN SKMREKRNLPNSNAIPEGMRE PSTDNPEEPGEAWSYFGRPWRN IRMPCSVLTLAKTKSCASLSAR YLIQKLFTKDLVQSNVYGNL KHGLCALDPNKISALREFLQEN YPICDLSENGRDWKSCVTSINS
21176	51544	A	21303	1	297	
21177	51545	A	21304	1	162	
21178	51546	A	21305	11	212	KGKNCVAIAADRRFGIQAQMV TTDFQKIFP/MGAQRLKFRNL YELKEGRQIKPYTLMSMVANL LYEK
21179	51547	A	21306	37	554	SSIKFGRSNPDYWIALPSRNLDP AIMSIMSYNGGAVMAMKGKN CVAIAADRRFGIQAQMVTRDF* KFFPMG*PACTPGMAGFAIDVQ TVAQRLKFRNLNLYELKEGRQIK PYTLMSMVANLLYEK/RDPDHL FETISQAMLNAVDRDAVSGMG VIVHIEKDKITRTLKARM

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21180	51548	A	21307	51	741	YTAIMSIMS YNGGAVMAM\KG KNCVAIAADRRFGIQARLLTTN FQKIFPMGDRLYIGLGASPLD VQTS/VAQRLKFRAEPVMS*RE GRQ\KPYTLH*AMGGQPSLL*E KVFGPLTYTE\PVHLPGLGPERP FKALSICFSKTLIRVGPMDLN DFCGSSGNLAPNKMVG\MCESL WGGPTWDPDHLF*KPFSQGHG *MLWDRDGS/VSGMGSSLFHIE KDK\IPRTLKARMD
21181	51549	B	21308	150	404	
21182	51550	A	21309	199	395	
21183	51551	A	21310	100	182	SFLFWIKR*SFPDALYFSSKSGA CSCN
21184	51552	A	21311	203	289	KCLALDIALATRRSAI*FPSVKG PGRGV
21185	51553	B	21312	166	411	
21186	51554	A	21313	232	317	KCPALDIAVATRRSAI*FPAVKG PGRGV
21187	51555	A	21314	129	278	FYSSVSGVSSKDDRRFGCSGYS AAVISFRQC*SQLPGCSATYQR ESTFS
21188	51556	A	21315	789	962	
21189	51557	A	21316	477	599	
21190	51558	A	21317	86	577	ATEPLAPSERREVSIPLLVPAPL PPPPRPPVPSRTRTRPWRP*AC FPMTLAASCGPTRSPWPSQQPIP QPAPVG/PGNIKTLGDAYEFAV DVRDFSPEDIIVTTSNNHIEVRA EKLAADGTMNTFAHKCQLPE DVDPTAVTSALRKDGSLTIRAR RDPHTEHV
21191	51559	B	21318	312	466	
21192	51560	A	21319	886	1338	GFWQVIRALRGGEVHREGTSA PGRHRRRCGRSAWNRCTAC SHVWPPRQMWPQG/PDVAMKT GNIKTLGDAYEFAVDVRDFSPE DIIVTTSNNHIEVRA/REA/ERPD GTMNTFAHKCQLPEDVDPTS VTSALREDGSLTIRAWRHPHTE HVQ
21193	51561	A	21320	3	605	KKLTPVVRSRVERDPRVRRGLR PHPVLSSLRPPGQGPAPSVDEPQ NLFHLPSGEKIPFLFLLLLFTPP PRPPVLSRPRTRPWRP*ACFP MTLAAICGPTSPWPSQPAPV/V AGNIKT*DAYEFVVDVRDFSP EDIIVTTSNNHIEVRPEKLAADG TVMNTFAQQCQLPEDVDPTSV TSALREDGSLTIRARGHPHTEH

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21194	51562	A	21321	3	450	SSAAEVQEPRGAPGSPSIPSASR PGPAPRPASLPSPQMQAAALPE EIRWLLEDAEEFLAEGLRNENL SAVARDHRDHILRGFQQIKA\G GDIGQDSSDDNHSGTLGLSLTY DAPFLSDYQDEGMEDIVKGAQ ELDNVIKQGYLEKKS*DH
21195	51563	A	21322	1	399	IGQDSSDDNHSGTLGLSLTSDA PFLSDYQD/EG*VHQISDHWEK LRTWC*VYCDKGMEDIVKGAQ ELDNVIKQGYLEKKS KDHSFFG SEWQKRWCVVSRGLFYFYANE KSKQPKGTFLIKGYSVRMAPHL RRDS
21196	51564	A	21323	3	1189	RLPARPPPDQGPRPVPLSRPAK CRLAVLP EEIRWLLEDAEEFLA EGLRNENLSAVARDHRDHILRG FQQIKARYYWDFQPQGGDIGQ DSSDDNHSGTLGLSLTSDAPFL SDYHDEGMEDIV*GAQELDNVI KQGYLEKKS KDHSFFGSEWQK RWCVVSRGLFYFYANEKSKQP KGTFLIKGYGVRMAPHLRRDS KKESCFELTSQDRRSYEFTATSP AEARDWVDQISFLLKDLSSLTIP YEEDEEEEEEKEETYDDIDGFDS PSCGSQCRPTILPGSVGIKEPTEE KEEEDIYEVLPDEEHDLEEDS GTRRKGV DYASYQQG\LWDC\ YGDQPDDL SL\QRGDLILFLSKE YNMYGWWVGELNSLVGIVPK EYLHHLPLKWKERWKPREIYFF
21197	51565	A	21324	47	225	NSHHVRGRPRCADSSSPSGDRG QPEAQPA PDSSAPEHAQEPGRA AVKR PDL*SHMTRRP

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21198	51566	A	21325	66	725	AILIIILLSSEGLWSSDQHRLVGV QDSPPQGSGLGCYFSAMATSEQS VCQARASVMVYDDTSSKKWVPI KPG\QQGFSRINIYHNTVSNTFR VVGVKLQDQQ\VVINYSIVKGL KYNQATPTFHQWRDARQVYG\ LNFASKEEATTFSNAMLFALNI MNSQEGGPSSQRQVQNGPSPD EMDIQRQVMEQHQQQRQEFL ERRTSATGPILPPGHPSSAASAP VSCSGPPPPPPPPVPPPTGA\TP PPPPPL\AAGGAQGSSHDESFHV QDWPLAISWGPSLRRVPNGPED ASGGSSPSGTSKSDANRASSGG GGGGLMEEMNKLLAKRRKAA SQSDKPAEKKEDESQMEDPSTS PSPGTRAASQPPNSSK\AGRKP WERSNSRGYFCVLDVQNPAL WPKSPES*EPPSVSSL/ISRMKPA GS\SDMA\LDADF\LD\RMKQEI LEEVVRELHKGERKEIID\AIRQ EA*SGISRKKNLGHRAHPPTRTS FICSQRPLM
21199	51567	A	21326	301	390	
21200	51568	A	21327	72	415	
21201	51569	A	21328	395	697	RVMSPVHVNTICSPHPHSDGDV IVPIVLSNERYHWPVVLGWVGG VDCDEFFRVVLGEARLHLDGV AHQH*TKEGTISNLFQ\ATSVSH LVEVVPQKLSWVI
21202	51570	A	21329	36	399	VEILTSKRAGDWFKEELRLLGG LDHIVDKVKECVDHLSRDEDEE KLVASLWGAQRCLRVLQSVTV HNPENQSYLIAKDSQLIVSSA KALQHCEELI*QYNRAVDTLCL ADCKPLPHPTVL
21203	51571	A	21330	1	177	
21204	51572	C	21331	198	350	
21205	51573	A	21332	113	228	
21206	51574	A	21333	1	466	

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21207	51575	A	21334	1	4133	ASGCWRKEV GAGSANGVEMV QGPVQTPALTIHRRKRRRRRRR RPSGGTQQALLPAPAVAASES* ARARPAALEAGREVAGPP\SCPP NRASYLPKAESLASLGSHLPAL LSRARVPRPPAGRKERE\RRKRP \VAKAPARLARGEYETGVKMTS RFAKTYSRKGGNGSSKFDEVFS NKRTTLSTKWGETTFMAKLQ KRPNFKPDIQEIPKKPKVEEEST GDPFGFSDDES L PVS SKNLAQ VKCSSYSESSEA
21208	51576	A	21335	3	221	
21209	51577	A	21336	1	580	
21210	51578	A	21337	2	1095	ARGNRPPPPRTERGVLESRTS RHRAPRLPPAMPAPRAPRALAA AA\PASGKAKLTHPGKAILAGG LRGG\IQICMTFPT EYVK TQLQL \DERSHPPRYRGIGDFVRQTVRS HGV\GLYRGLSSLLYGSIPKAA \RFGMFE\FLSNHMRDA\QGRL DSTRGLLC\SLGAGRGRP*VV VCPMETIKVKFIHDQTSNP KY RGFFHGVREIVREQGL\KGTYQ GLTAT\VLKQGSNQAI\RF\FVM TSLRQW\YPRGTTPNKAHEPF*1 TWGSFGA\IASASQVSFGNTPLD V\KTRMPGPWRPHK\YR\NTWD \CGL\QILKKGGSRAF\YKGTV PPLGPGLAWDVA\VFV\IYDEV G*SCFNKVWKNGIKA
21211	51579	A	21338	3	375	TAGDSGAEDGPASRVSQMPTLP PPMPWNLPAGVDC TTSGVLAL TALFFKMEEANLASRAKAQELI QATNQILSHRKPPSSLGMTPAP VPTSLGLPPGPSSYLLSGSPPLG GC\GSTPPTPPGLAA
21212	51580	A	21339	51	3789	GRGHPHGGGELLPASPRGSPEG DQPGQGDPEEKEGRV VPRGGA PDVPSAHALVPEPQTVLGLHQR VTAQPGRHGAH*LHGDR LHSG RPQRPTHGTWAPCLPYPTLGSG *RRHHGNPAGTPRSLLFPF\PEK ELEAPPPAPRFDIYDPFHPTDEA YSPPPAPEQKYDPFEPTGSNPSS SAGTPSPEEEEEEEEEEEEEEED EEEEEGLSQSISRISETLAGIYDD NSLSQDFPGDES PRPDAQPTQP TPAPGTPPQ
21213	51581	A	21340	286	393	
21214	51582	A	21341	64	610	

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21215	51583	A	21342	1	4433	MWAQLLLGLMLALSPAIAEELP NYLVTLPARLNFPSVQKVCLDL SPGYSDVKFTVTLETQDKTQKL LEYSGLKKRHLHCISFLVPPPAG GTEEVATIRVSGVGNISFEEK KKVLIQRQGNQTFVQTDKPLYT PGQQVYFRIVTMDSNFVPVND KYSMVELQDPNSNRIAQWLEV VPEQGIVDLSFQLAPEAMLGTY TVAVAEGKTFGTFSVEEYVLSP FLLLLSSVLPKFKVEVVEPKELS TVQESFLVKGGL*)
21216	51584	A	21343	3	522	ELRTWIEGLTGLSVGPDPFQKGL KDGTILCTLMNKLQPGSVPKIN RSMQNWHLLENLSNFIKAMVS YGMNPVDLFEANDLFESGNMT QVQVSLLAGKMGTKNCASQ SGMTAYGTRRHLYDPKNHILPP MDHSTI\SLQMGTKNCASQVG MTAPGTRRHLYDTKLGTDKCD
21217	51585	A	21344	1	1230	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKINASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNMQVR VSLLAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSGQVFGLRQIYEPKY
21218	51586	A	21345	2	389	

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21219	51587	A	21346	1	1113	MHQEDLRAWYLDLGLPSHQN AQPTAWKCQRAPSPYTHQDMA LIPSPTARWLSPEKEPKQGEVG EKSLLPDPTLPLTDPRLTGSTEQ AHAEGLAALMSALRVSHLQGR GGVVTLVDSQLGVIAVSSTQFN KGPSYRLLADVQNRLLPKYDS QKEAELRSWIKGFTGLSIRPDFQ KGLKDGII LCTLVNKLQPGSVP KIN\ASV*NWH*LENLSNFLKA MVSYGM/NPVDLFEANNLFESG NNMQVRVSLALAGKAKTKGL RSGVDIRDKYSEKQNFDDTTM KASQCVIRLQITNKCASQSGMT AYGTRRHLYDPKNRILPPMDNS TISLQMGTNKCASQVGMTAPG TQRHIYDTKLGD KCENSSMSL
21220	51588	A	21347	353	1260	SCWCLKLALAVSST/QFNKGPS YRLLADVQNRLLFKYDSQKEA ELRSWIKGFTGLSIRPDFQKGLK DGIILCTLVNKLQPGSVPKINAS V*NWHQLENLSNLIKAMVSYG M/NPVDLFEANDLFESGNNMQ VRVSLALAGKAKTKGLQSGV DIRDKYSEKQNFDDTTMKARL CVIRLQITNKCASQSGMTAYVT RRHLYDPKNRILPPMDNSTISLR MGTNKCASQVGMTAPGNQWH IYDTKLGD KCENSSMSLKMGY TQVANHSRQVFGLGRQIYEPKY QPGGPVAHGAPSAGNCPGPGE
21221	51589	A	21348	3	530	
21222	51590	A	21349	1	853	MPESWLAAFPYGDIIKVVGL QLKEGLHQNLTMQDSIQIFDFQ LPGLLRPSSVLWTLKPYHTAGL ASDRDSYKGILACMPMFGSRR SPLRDIKSHQADLELEVKNSLD TIHRLESELKKQSKIQSQMKVE KAHLEEEIAELKKSQAQDKAKL LEMQESIKDLSAIRADLANKLA EEERAKKTSAGAFGP/LIAQAN SRDEGTATITQLELERDVHQRE LKDLTSSLQSVKTKHEQNIQEL MKHFKKEKSEAENHIRTCLKVPL LNYPPDDTEGIFLVAHEVNKA

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21223	51591	A	21350	1	652	NTSLINTKKKLETDISQIQGEME DIIQEARNAEKAKKAITDAAM MAEELKKEQDTSAPLERMKKN LEQTVKDLQHRLEAEQLALK GGKKQIQKLEARVRELEGEVES EQKRNVAVKGLRKHVKVE LTYQTEEDRKILRLQDLVVK LQAKVKSQRQAEEAEQSNV NLSKFRRIQHELEEAADFRADIA ESQVNKLVRVKSREVHTKIIEE
21224	51592	A	21351	21	5868	PAAMSSDSEMAIFGEAAPFLRK SERERIEAQNKPFDAKTSVFVV DPKESFVKATVQSREGGKVTA KTEAGATVTVKDDQVPMNPP KYDKIEDMAMMTHLEPAVLV NLKERYAAWMIYTYSGLFCVT VNPYKWLVPVNAEVVTA YRG KKRQEAPPHIFSISDNAYQFML TDRENQSILITGESGAGKTVNT KRVIQYFATIAVTGEKKKEEPA SGKMQGTLEDQIISANPLLEAF GNAKTVRNDNSSRFGKFIR
21225	51593	A	21352	54	399	
21226	51594	A	21353	441	1585	VPPMGGGPPFVGPVGFPGDRS HLDSPEAREAMFLRRAAVAPQ RAPILRPAFVPHVLQRADSALSS AAAGPRPMALRPPHQALVGPP LPGPPGPPMMLPPMARAPGPPL GSMAALRPPLEEPAAPRELGLG LGLGLKEKEEAVVAAAAGLEE ASAAVAVGAGGAPAGLAVIGP SLPLALAMPLPEPEPLPLEVV RGLLPP\LRITELLSLRPRPRPPR\ PEPPPGLMALEVPEPLGEDKKK GKPGEIEHRCIATA/AQGASWE DPPTCWKWD\AE*LSRVFCGDL G\NEVND*HLGHAASARFPIPSL KAKVIR*QSAQARPKGYG\FVS FKDP\SDYVRP\MREMNGKYVV LAPPIKLRKSMWKDRNLDVFR KKQKEKKKLGLR

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21227	51595	A	21354	1	1122	MPGGKIGFLIEKGATEQSSTGN DFDELREEGRRSNYSELQEDI QTKGKEVENFEKNLEECVTTIS NTEKCVKELMELKTKARELRE ECRSFRSQCNQLEERVAMPKDE MNEMKREGKFREKRIKRNEQS LQEIWDYVKRPNLPLIGVPESD RENGTKLENTLRDIIQENFPSLT RRGQPFRIEMENTENAPKDNLLE KEQLPRHNNCLELTQEEPAWD LQFDLLDLNDISSALKHHEEKN LISLLPQRGADYLSFRSHFQKNF VCVENC SLQERTVTGTGVKVN VSFEKKVQIRITFDSWKNYTDV DCVYMKNVYGGTDSDTFSFAI GLPPVIPTEQKIEFCISYHANGQ IF\WDNK*WGRKYKNCVIVQW
21228	51596	A	21355	71	1124	GPPPLCLMSCTRMIVLDPRL TSSVMPVDVAMRLCLAHSPV KSFLGPYDEFQRRHFVNKLKPL KSCLNKHKAKSQNDWKCSHN QAKKRVV\FADSKGLSLTAIHV FSDLPEQPAWDLQFDLLDLNDI SS\ALKHH\EEKNLILDFP\QPST DYL\SFRSHFQK\NFVCL\ENCSL QERTVTGTV\KVKNVEF*GRKF QIRYHFSDSWEKLTLDVDCVY MENVY/GVGTGSDTFSFAIDLPP VIPTEQKIEFCISYHANGQVFW DNNDGQ\NYWIVHVQWKPDG VQTQMAPQ\DCAFHQTSPKTEL ESTIFGSPRLASGLFPEWQSWG RMENLRLLCDELSNNVTGLDLS YSPMQS
21229	51597	C	21356	204	273	
21230	51598	B	21357	1	1062	
21231	51599	A	21358	1	397	QRPI*PTKPIGQRVSKGHQPTR H\DFQTQFLAAHETISRLVGFS GQV\QYLDLIKK\DPKLFNEER LIDKTKVTYLLKWLPESESLFLA SHASGHL\LYNVSHPCASAPPQ YSLKQGEFVS\YAAKYNDLF

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21232	51600	A	21359	71	1736	FRTSLKD V W H T P L T P F L P P L K S I D L N K P I D K R I Y K G T Q P T C H D F N Q F T A A T E T I S L L F G S F S P R R T W A W C G P A V * A G P C P T A F L G T L R L I D K T K V T Y L K W L P E S E S L F L A S H A S G H L Y L Y N V S H P C A S A P P Q Y S L L K Q \ A W G F S F Y A A K S K A P R N P L A K W A V G E G P L N E F A F S P D G R H L A C V S Q D G C L R V F H F D S M L L R G L M K S Y F G G L L C V C W S P D G R Y V V T G G E D D L V T V W S F T E G R V V A R G H G H K S W V N A V A F D S L Y T T R A E E A A T A A G A D G E R S G E E E E E E P E A A G T G S A G G A P L S P L P K A G S I T Y R F G S A G Q D T Q F C L W D L T E D V L Y P H P P L A R T R T L P G T P G T T P P A A S S S R G G E P G P G L P R S L S R S N S L P H P A G G G K A G G P G V A A E P G T P F S I G R F A T L T L Q E R R D R G A E K E H K R Y H S L G N I S R G G S G G S G S G G E K P S G P V P R S R L D P A K V L G T A L C P R I H E V P L L E P L V C K K I A Q E R L T V L L F L E D C I T A C Q E G L I C T W P R P G K A F T D E E T E A Q T G E G S W P R S P S K S V V E G I S S Q P G
21233	51601	A	21360	2	467	L M Q \ N W D A A M E D L T R L K E T I D N N S V S S P L Q S L Q Q R T W L I H W S L F V F F N H P K G R D N I D L F L Y Q P H M L A D K L N M T P E E A E R W I V N L I R N A R L D A K I D S K L G H V V M G N N A V S P Y Q Q V I E K T K S L S F R S Q M L A M N I E K K L N Q N S R S E A P N W A T Q D S G F Y
21234	51602	B	21361	1	909	
21235	51603	A	21362	3	3617	Y W K E R P T Q K V I P R A T E N H G L K S Y L Q K T K L S I D E A A F L L P D T N L K S E L L E L L T H W L Q V G V P M T P S L G S I N L L G W L T E L R E T H T Y I C W F I V K E T T R D T D E E M C R T E P A L A C S I S H Y C D D G C I Q M L N T P E T L Q C S A K D S K H F I P K E C S I P G E N R P P S D T G K T V K F L S L N I F N L Q L A E S T D A E Q R A N C I L R C F L T E T T L N Y Q K I L S V R P G T K L A T A S H V S G L G L Q T P P F G L A Q H L I R P H A F L A P K D P L T S F T E R N S R S G

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21236	51604	A	21363	75	2141	GPRLGLTTMWHEARKLGRRRLR GLLFDSRKRAERRREYEEKIKK DPAQLQVHGRACKVHLDSA VALAAESPVNMMPWQGDNN MIDRFDVRAHLADHIPDYTPPLA HHHFSQNQESDER\KCNERYR GLVQNDFAGISEEQCLYQIYIDE LYGGLQRPSEDEKKKLAEKKA SIGYTYEDSTVAEVEKAAEKPE EEESAAEEESNSDEDEVIPDIDV EVDVDELNQEQQVADLNKQATT YGMADGDFVRMLRKDKKEAE AIKHAKALEEEKAMYSGRRSR RQRREFREKRLRGRKISPPSYAR RDSPTYDPYKRSPSESSSESRSR SRSPTPGREEKITFITSFGGSDEE AAAAAAAAAASGVTTGKPPAP PQPGGPAPGRNASARRRSSSSSS SSSASRTSSSRSSSRSSSRSGG GYYRSGRHARSRSRSWSRSRSR SRRYSRSRSRGRRHSGGSRDG HRYRSRPARRGYGPRRRSRSR SHSGDRYRRGGRGLRHSSRSR RSSWSLSPSRSLTRSRSHSPSP SQSRSRSRSPSPSPAREKL TRPAASPAVGEKLLKTEPA\AG KETGAAKVPKLTPEKLLKLRM QKPL\NRQFKADKAAQRKR*S QAEHERQERKDEA\RAMARKIG MKERER\REKEREWERQYSRQ SRSP\RDYSREYSSRRRSRSR SRSPHYRH
21237	51605	A	21364	1	609	
21238	51606	A	21365	1	1227	
21239	51607	A	21366	1	1626	
21240	51608	A	21367	370	4388	GFIWNRITPTEDGQTRELQNLH GLSAPVPRGRKGKKVKTQTSSF DIQKAEWLKYNPEQLQDEG YKKHIKHHCNKVLLRVRLYY LKQEVIGNECQKVFDDGVDASDI DVWVPEPDHSEVPAEWDFD ADKSLIGVFKHGYEYNTIRA DPALCFLERVGKPDEKAVAAE QRANDYMDGDVEDPEYKPAPA IFKDDIEDDVSSPGDLVIADGDG QLMEGDKVYWPQTQSALTTRLR RLITAYQRTNKNRQIQIQ

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21241	51609	A	21368	1	530	AEADAI IQMVREGQRRARRQQQ AATSESSQSEASVRREESPM DV DQPSPSAQDTQSIASDGT PQGVE KEKEERPPELPLLSEQLALDEL WDM LG ECLKELEESH DQH AVL ETHRTVLNQILRQSTTHLADGP FAVLVDYIRVLDFDVKRKYFR QELERLDEGLRKEDMAVHVRR DHVF
21242	51610	A	21369	1	217	
21243	51611	A	21370	274	599	PVSKESRVAPLCDFCLPFIQSES SQSEASVRREESPM DV DQPSPS AQDTQSIASDGT PQG EKEKEER PPEL P/LLSEQLSLDELWDM LG E CLKELEESH DQH AVLVLQPA
21244	51612	A	21371	2	731	TPTPPTAPTPTVTSAPALVAATAI STIVVAASTTVTTPTTATTTVSI SPTTKGSKSPAKVSDGGSSSTD FKMVSSGLTENQLQLSVEVLTS HSCSEEGLEDAANVLLQLSRGD SGTRDTV LKLLNGARHLGYT LCKQIGTLLAELREYNLEQQR AQ CETLSPDGLPEEQPQT TKLK GKMQSRF\ SGLGSASSIQA AVR QLEAEADAI IQMSESSQSEASVR REESPM DV DQPSPSAQDTQSI A
21245	51613	A	21372	208	423	LYVKPTAPPK*AL*SEGLE*MSP QCLWQGLQQGKAQKKLLEVP NKLTQTIN*PANVLILA*GGSS YRPPHK

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21246	51614	A	21373	1	2002	MPQLPGISLPEGVDPSFLAALPD DIRREVLQNQLGIRPPTRTAPST NSSAPAVVGNPGVTEVSPEFLA ALPPAIQEEVLAQQTAEEQQRPE LAQNASSDTLMDPVTLIQTLPS DLRRSVLEDMEDSVLAVMPPDI AAEAQALRREQEARQRQLMHE RLFGHSSTSALSAILRSPAFTSR LSGNRGVQYTRLAVQRGGTFQ MGGSSSH\NRPSGS\NVDTLRL RGRLLLDHEALSCLLVLLFVDE PKLNTSRLHRVLRNL CYHAQT RHWVIRSLLSILQRSSESELCIET PKLTTSEEGKKSSKSCGSSSHE NRPLDLLHKMESKSSNQLSW/L SSVSMDAALGFR\TNIFQIQRS GRKHTEKHASGGSTVHIHPQA APVVCRHVLDTLIQLAKVFP FTQQRKTETNCESDRERGNKA CSPCSSQSSSSGICTDFWDLVK LDNMNVSRRKGKNSVKSPVSA GENKVSEAQANS GSGASSTTTA TSTTSTTTTAASTTPTPTAPT VTSAPALVAATAISTIVVAASTT VTTPTTATTTVISPTTKGSKSP AKVSDGGSSSTDFKMVSSGLTE NQLQLSVEVLTSHSCSEEGLED AANVLLQLSRRPARMLAMHW PSLYNVETEKTLALPNLIALQTS PFASGVIAKSSTDRLINQCAPV WRWR
21247	51615	A	21374	1	6384	MVSPPEPKTGHSIRNWLDLKD PILHAYSNLPSSPAVDLAIHSSK EGRMDWTEGQVTGPVVRSAAT SGAGSTTSGVVSGSLGSREINYI LRVLGPAACRNPDI FTEVANCC IRIALPAPRGSGTGNGSSRIPRES APEMATAESLVEELSEDAAGG ASPGVELPALGCSELPAAEVSP TASSKNLETICEYAYCMAMLPE TGLDPYPKRGFLDTQERIWTD IPSPGNIPTTHPLMVRHADHSS LTLGSGSSTT
21248	51616	A	21375	1	1356	
21249	51617	A	21376	80	608	

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21250	51618	A	21377	298	1374	GRGDWPDILNLTQATASWTPR WCCLRKPV EAPSGGATEERTLS LTSGLSMPADPCEGGARSCLV TESARGGLQNGQSVDVEETLPS EPENGALLRSERYQGPRRRACS ETLAESRTAVLQQRRAAQLPG GPAAAGEQRASPSKARLKEFLQ QCDREDLVELALPQLAQVTV YEFLLMKVAESLGITEFLRKKEI HPDNLGPKHLSRDMDGEQLEG ASSVEKREREAEEGLASVKRP RREALSND\TTESLAANSRGRE KPRPLHALAAGTIVSQEEDIVT VTD/GRGACLRMGPLEGVPLEA VESVVTVEPEPSQ*NGVRY*NS SDFIQRSMASNVYFSNVNIAQ MNLLFIKNNVFL
21251	51619	C	21378	354	530	
21252	51620	A	21379	1	1272	MVLSEKASGSTLRGCTEERTLS LTSGLSMPADPCEGGARSCLV TESARGGLQFLQQCDREDLVEL ALPQLAQVTVYEFLLMKVAE SLGITEFLRKKEIHPDNLGPKHL SRDMDGEQLEGASSEKREREA AEEGLASVKRPRREALSNDTTE SLAANSRGREKPRPLHALAAES HTTTVSGGNGSVFQAGPQLQA LANLEARRGSIGAALSSRDVSG LPVYAQSGEPRRLTQAQVAAFP GENALEHSSAQDTWDSLRS PGF CSPLSSGGGAESLPPGGPGHAE AGHLGKVCDFHLNHQQPSPTS VLPTEVAAPPLEKILSVDSVAV DCAYRTVPKPGPQPGPHGSLLT EGCLRSLSGDLNRFPCGMEVHS GQRELESVVCLSAETMAF*NFP\ MGA\MSYCL\RD\RSRFLRLPM GLSCPLQVQ
21253	51621	A	21380	90	204	
21254	51622	B	21381	13	423	

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21255	51623	A	21382	1513	2405	RRAQYRRWRRWRRRRHREPE KEKRRHSRSHSRRRRTLIF*TQS RSRSR* [*] LHCQSRSR**FKSPRQ RRSRHSRERGRSTARHYRST\KER QQRRSRSGTRSPKKSRCPKRKL SLSPSPGKHKKKKKDKERNRY ERERSTSKKKSKDREKDQERKS ESDTDVKVTRVYDEEEQGYDT SQEIEMHADNPAAIQTVVLQRD DLQNGLLSTCRELSRATAELER AWREYDKLEYDVTVTRNQMQ EQLDHLGEVQCWCYRTEKYV MERGPEQDPKRAFLDFVQERIQ GESAVQSESKFIKTVKK
21256	51624	A	21384	1	180	
21257	51625	A	21385	3	115	
21258	51626	A	21386	3	312	LPTALLRSTSMALLHSGRVLPGL AA [/] FHPGL/AA/AASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKPY VLPSVRKFVTQTISGTGAL
21259	51627	A	21387	3	395	SMALLHSGRVLPGLAAAFHPC\ LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLPSVRKAE AQIAAKNLDLLPLLNVC [/] SLSS HTVSPAAQGGTRKEDILGFACC
21260	51628	A	21388	1	303	
21261	51629	A	21389	2	425	RPE*WKEIATVVKKRNL [/] FALFD MAYQGFASGDGDKDAWALHH FIEQGINVCLCQSYAKNMGLYG EHVGAFTVVCKDADEAKRVES QLKILISPMYSNSPLNGAQI [/] ASTI PNTPVGLKVWVMGGLHDHPQ VMSDEKETTLRA

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21262	51630	A	21390	3	1508	HEAGAGSLCVC PARLLRPA AA HCPSYRSTMAHACTSGRVLP GI AAA\FHPGLAAAASARASSW W THVEMGPPDPILGVTEAFKR DT NSKKMNLGVGAYRDDNGKAL PCCPSVRKAEGPRLPQKIWD KE YL\PIGGVLAEFCKASAELAL GE NNRSLERVGRFVTVQTHFW EL GALRI\GASFL\QRFFKFSR DVFL PKPTWGETTHPSFRDAG\MQ L\ QGYRIYYDPKTCGFDFTGA VED ISKIPEQSVLLALHACG/HNN PTG VDPRPEQWKEIATVVKKRNL F AFFDMAYQGFASGDGDKDA W AVRHFIEQGINVCLCQSYAK NM GLYGERVGAFTMVCKDA\DE S KRVESQLKILIRPMYSNPPL NG ARIAAAILNTPDLRKQWLQ EVK GMADRI\IGHAGLQLVSNLQ GR EG\STHNWATHSPTKLGMFC F HRG*KLEQVERLIKEFSIYMT K DGRISVAGVTSSNVGYLAHA IH QVTKYVSLVRGNGDNLSVL SL
21263	51631	A	21391	1	184	
21264	51632	A	21392	70	253	
21265	51633	A	21393	1	351	VMEFYCQSCETAMCRECTEG E HAEHPTVPLKDVEQHKA SLQ VQLDAVNKRWGTLPKPPTG CL YLRPGLMASC\QLTNQKASI /VD DIHSTFDELQKTLNVRKSV LLM ELEVNYGLKHK

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21266	51634	A	21394	208	2546	WLHCMQQQRAGSKTAGPPACQ WSRMAS\EGTNIP\SLVVGGQNDK QFLICSICLERYKNPKVLPCLHT FCERCLQNYIP\AHS\TLSCPVC RQTSILPEKGVAALQNNFFITNL MDVLQRTPGSNAEESILETVT AVAAGKPLSCPNDGDNVMEF YCQSCETAMCRECTEGEHAEH PTVPLKDVVEQHKASLQVQLD AVNKRWGTLPKPPTGCLYLRP GLMASCQLTNQKASIVDDIHST FDELQKTLNVRKSVLLMELEV NYGLKHKVLQSQLDTLLQGQE SIKSCSNFTAQTLNHGTETEVLL VKKQMSEKLNELADQDFPLHP RENDQLDFIVETEGLKKSIIHNL GTILTTNAVASETVATGEGLRQ TIIGQPMSTITTCKDKDGELCKT GNAYLTAELSTPDGSVADGEIL DNKNGTYEFLYTVQKEGDFTL SLSLYDQHIRGSPFKLVIRSAD VSPPTEGVKRRVKSPGSGHVKQ KAVKRPASMYSTGKRKENPIED DLIFRVGTKGRNKGEFTNLQGV AASTNGKILIADSNNQCVQIFSN DGQFKSRFGIRGRSPGQLQRPT GVAVHPSGDIIIADYDNKWVSI FSSDGKFKTKIGSGKLMGPKGV SVDRNGHIIIVDNKACCVFIFQ PNGKIVTRFGSRGNGDRQFAGP HFAAVNSNNEIITDFHNHVKV FNQEGEFMLKFGSNGEGNGQF
21267	51635	A	21395	1	591	
21268	51636	A	21396	3	608	LEGDQRWINTVSQALHLLSTLY GPFPCYIGIRCAKMAYELWR NLEEEEDGETKGRRPEIGHIFLL DRGKLCPAFLSSFSPRRHGNME GVVAKLKS*S*GCESQL*GAWV LGPMESIKAALGHAV*KAGSGR TFMVRDLCFDVFVTCALCSQV VYEGLVDDTFRIKCGKCYGPLH LGKMDGSSALAPATWGRVCGR DPHPE
21269	51637	A	21397	268	402	
21270	51638	A	21398	139	452	

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21271	51639	A	21399	1	2497	MGPVAAPLGLSLPATDGAHSV RGNSVLVPSGLIPKDYRSLKTQ YLQSYGPEHLLTFSNLRAGLL TEQAPGDTLTAVESKVSKLVT KAAGKITDAFSSLAKRSNFRAIS KKLNLIPRVDGEYDLKVPRDM AYVFGGAYVPLSCRIIEQVLER RSWQGLDEVVRLNCSDFAIT DMTKEDKASSESLRLILVVFLG GCTFSEISALRFLGREKGYRFIF LTTAVTNSARLMEAMSELPK KDLFIETDLMSPDLRIANVSLLK QHEVDKLYKVENKPALSSNEQ LCFLVRPRIKNMRYIASLVNAD KLAGRTRKYKVIFSPQKFYACE MVLEEEGIYGDVSCDEWAFSLL PLDVDLLSMELPEFFRDYFLEG DQRWINTVAQALHLLSTLYGPL SQTGYGIGRCAK\MA YEFVEGT WEEEDGRNPRARREGFG\HIF LLADR\DVDFVDSTLLPKLVYEG LVDDTFRIKCGSVDFGPEVTSS DKSLKVLLNAEDKVFNEIRNEH FSNVFGFLSQKARNLQAQYDR RRGMDIKQMKNFVSQELKGLK QEHY\LLSLHIG\ACESIMKKKT KQDFQEVLIKTEHALLEGFNIRE STSYIEEHIDRQVS\PIESLRMC LLSITENGLIPKDYRSLKTQYLQ SYGPEHLLTFSNLRAGLLTEQ APGDNLTAVESKVSKL\VTDKA AGKITDALSLAKRSQFRAISK
21272	51640	A	21400	1	216	
21273	51641	A	21401	2	270	
21274	51642	A	21402	1	600	SGRALHASWAAGGVGAYSGRL RSDALEGESFA\LSF\SSASDAEF DAVVGYLEDIIMDDEFQLLQRN FMDKYYL\EFEDTEENKLIYTP\I FNEYISLVEKYIEEQ\LLQR\IPEF NMAAFHHNITPSVPVCRHHKD EVAW*QYSAMLAPPFTRFSWA F*RNVFGTYRGRKKEGRGL\DL SSGLV\VTSLCKSSSLPASQNNL RH
21275	51643	A	21403	1	297	

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21276	51644	A	21404	1	1419	MGAPLLSPGWGAGAAGRWW MLLAPLLPALLLVRPAGALVEG LYCGTRDCYEVLGVSRGAKA EIARAYRQLARRYHPDRYRPP GDEGPGRTPQSAEEAFLLVATA YETLKIVFPELKIVKELTLLMP SRAVWIIWSHKMSGGGAGPEL DIGYVPVLLHMPKRIGSGMDTS RSTTVIPVEIRNKELIALLVKAQ DRQEEETNYKLRFNGLSYEVG YLVILQDEETRKDYDYMLDHP EEYYSHYYHYYSRRLAPKVDV RVVILVSVCAISVFQFFSWWNS YNKAISYLATVPKYRIQATEIA KQQGLLKKAKAKSKNNKVQR RNS*EEENIIKNIKSKIDIKGGY QKPQICDLLLFQIILAPFHLCSYI VWHCRWIYNFNIKKEYGEEE RLYIIRKSMKMSKSQFDSLEDH QKETFLKRELWIKENYEVYKQ EQEEELKKKLANDPRWKRYRR WMKNEGPGRLLTFVDD
21277	51645	A	21405	1	1266	
21278	51646	A	21406	1	739	
21279	51647	A	21407	1	428	

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21280	51648	A	21408	99	2338	MPEEVHHGEEEVETFAFQAEIA QLMSLIINTFYSNKEIFLRELISN AS\DALDKIRYESLTDPSKLD SG KELKIDHNPQEPYPGLWVD TG IG\MTKADLINNLGTIAKSGTKA FMEALQAGADISMIGQFGDGFY S\ANLVAK\KVVVITKHP\DDEQ YAWESSAGGSFTVRADHGEPIA RGT\QVILHLKEDQTEYLEERR V\QEVVKKH\SQFIGYPITLYLE KEREKEISDDEAEEEEKGEKEE DKDDEEKP KIEDVGSDEEDDSG KDKKKKTKKIKEKYIDQEELNK TKPIWTRNPDDIT\QEEYGEFYK SLTNDWEDHLAVKHFSVEGQL EFRALLFIPRRAPFDLFENKKKK NNIKLYVRRVFIMDSCDELVPE\ YLNFI PGVVDSEDLPLNIFRKML QQNK/ILWKVIRKNIVKKCLELF SELAEDKENYKKFYEAFSKNLK LGIHEDSTNRRRLSELLRYHTS QSG\DEMTSLSEYVS\RMKETQ MSIYYITGESK\EQVANSAFVER VRKRGFEVVYMT\EP\DEYCVQ QLKEFDGKKLV\SVTKEGLELP EDEEEKKKMEESKAKFENLCK LMKEILDKKVEK\VTIS\NRL\VS SPC\CIGHKHLGAGQALIERDHE KPRALRDHPPQGGIMMGKKAP *ESPPDHPHFVETRAGRKADAR QVMIRAVKD/LWWVLLV*NPP LLSSGF\SLEDPQT/HTPNRIYRI
21281	51649	A	21409	1	426	
21282	51650	A	21410	1	1305	
21283	51651	A	21411	446	3180	VAVRLGSASQFPSGARPQLPRP PSWSSSIHSPISTTGLSESTDSDS KSGLRGFSAYNPSSRI PKSTTSS NSSDGAVTASNQDTGIPWVLV TGPTPPVNSPVESLQGSASFSSGF STPRGLVKGPTLPPDSNLTSVSD YTWIFVRGPPIPNDLSQVSIQAP PTPSNTPECQYKGLPHPQCPASP GVWYQDHLYPITFPQCRHKHL LHPITSPQCQGRRLPPPQCLTLR GVQYKNLLHPVILSSCRHKDIL NLITLAE

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21284	51652	A	21412	24	667	MLPWLNCITTGVPWPTPSKRW LRNSKVCDCCKTPSNAFSLLS VPPTTTSPASLA WWSGCARLLD LGSSSLMMSPTMASPACRPWL GQRWRLISGSWA WAIVPVT*VP VPEPSWKNRAG*PGCSSYESPH MRRPTRPSASCLEWAPRASLA MHLMATSFVLLSSARITSEKA PLSGEGIHKVKNWNPSFPPASPP FPMGSVTTAGPRTWMTLP
21285	51653	A	21413	1	304	RAQVLPARCYPGSTVSPLGFRG LPLPRGGSEIPRCATAATRPHR MPFLFYLFLLQQH RPHHWHGG AAVPGFWTSAHPA\CDVTYHGF PSLQALAGPPWQCI
21286	51654	A	21414	1	7629	
21287	51655	A	21415	180	423	
21288	51656	A	21416	17	753	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYLFLLQQH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGL/RLAAAATRVLI*GGP QGPLHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGKL FPEPVGTLCLWGPSALSGHHHF YDLSRTP
21289	51657	A	21417	17	1087	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYLFLLQQH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGL/RLAAAATRVLI*GGP QGPLHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGKL FPEPVGTLCLWGPSGWIRCLLK NYRLLPLDLEGLLGNAFDGHQ LLRPLIFCQDHLREGPPIGRGDS QGEELEPQLPSSLSSIPYGFCDH CWTKDVDDPPLVTHPSPGSRD GHMTQAWPVKVVSPLATVIGH VMQASLLAL

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21290	51658	A	21418	3	1584	TQKNTAVRAHRLWGREKISRK EGAGPTPQESRRIGARSGALMT RKGRGMQEVEELSETGKVVKQ HRVGEALRVVVLVWAGSLG/D RRGLVLGRRGYYGAVPAVEMP ARALLPRRMGHRTLASTPALW ASIPCPRSELRLDLVLPSCQSFR WREQSPAHWSGVLADQVWTL TQTEQLHCTVYRGDKSQASRP TPDELEAVRKYFQLDVTLAQL YHHWGSVDSHFQEVAQKFQG VRLLRQDPIECLFSFICSSNNNIA RITGMVERLCQAFGPRLIQLDD VTYHGFPSLQALAGPEVEAHLR KLGLGYRARYVSASARAILEEQ GGLAWLQQRESSYEEAHKAL CILPGVGTKVADCICLMALDKP QAVPVDVHMWHIAQRDYSWH PTTSQAKGSPQTNKELGNFFR SLWGPYAGWAQAGLLGNAFD GHQLLRPLIFCQDHLREGPPIGR GDSQGEELPQLPSSLSSIPYGF CDHCWTKDVEDDPLVTHPSPG SRDGHMTQAWPVKVVSPLATV IGHVMQASLLAL

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21291	51659	A	21419	837	2785	WTRMLFAVSCNDGECQNSNVI LFCDMCNLAVHQECYGVPIPE GQWLCRRCLQSPSRAVDCALC PNKGGAFKQTDGGRWAHVVC ALWIPEVCFANTVFLEPIDSIEHI PPARWKLTCYICKQRGSGACIQ CHKANCYTAFHVTCAQQAGLY MKMEPVRETGANGTSFSVRKT AYCDIHTPPGSARRLPALSHSE GEEDEDEEEDGKGWSSEKVK KAKAKSRIKMKKARKILAEKR AAPVVSVPICPPHRLSKI'TNRL TIQRKSQFMQRLHSYWT LKRQ SRNGVPLLRLQLTHLQSQRNCD QVGRDSEDKNWALKEQLKSW QRLRHDLERARLLVELIRKREK LKRETIKVQQIAMEMQLTPFLIL LRKTLEQLQEKDTGNIFSEPVPL SEVPDYLDHIKKPMDFFTMKQ NLEAYRYLNFDDFEEDFNLIVS NCLKYNAKDTIFYRAAVRLRE QGGAVVRQARRQAEKMGIDFE TGMHIPHSLAGDEATHHTEDA AEEERLVLLLENQKHLPVEEQLK LLLERLDEVNASKQSVGRSRA KMIKKEMTALRRKLAHQRETG RDGPERHGPSSRGS LTPHPAAC DKDGQTD SAAE SSSQETSKGL GPNMSSTPAHEVG\GEPQFCSP KRTRRQ/HGPPKRPGRPPKNRES QMTPSHGGSPVGPP/RAPHHEFP ASAQAG*EPQFCSPKRTRRQLD
21292	51660	A	21420	1	2625	MENKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDITAF LKT VKK NKHKFYPAFIHILARL MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGF IENMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYTTQGDKVL MPLAIQRDSE DKNWALKEQLKSWQRLRHDL ERARLLVELIRKREKLKRETIKV QQIAMEMQLTPFLILLRK

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21293	51661	A	21421	164	1401	PPKGRGMQEVEELSETGKVVK QHRVGEALRVVVLVWAGSLG/ DRRGLVLGRRGYYGAVPAVE MPARALLPRRMGHRRLASTPA LWASIPCPRSELRLDLVLPQGQS FRWWREQSPAHWSGVLADQV WTLTQTEELHCTVYRGDKSQ ASRPTPDELEAVRKYFQLDVTL AQLYHHWGSVDSHFQEVAQKF QGVRLLRQDPIECLFSFICSSNN NIARITGMVERLCQAFGPRLIQL DDVTYHGFP SLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGLAWLQQRLRESSYEEAH KALCILPGVGTKVADCICLMAL DKPQAVPVDVHMWHIAQRDY SWHPTTSQAKGPSQTNKELGN FFRSLWEPYAGWAQATPPSLQ VLFSADLRQSRHAQEPPAKRRK
21294	51662	A	21422	751	2107	SSEHPRELHRIPISWAMSELKDC PLQFHD\FKSV DHLKVCPRYTA VLARS\EDDGIGIEELDTLQLEL ETLLSSASRR\LRVLEAETQILT D\WQDK\KGDRRFLKLG\RDH\E FGAPPKHGKPKK\QKLE\GKAG HGPGP\CPGRPKSKNLQPK\IQE YEFTDDPIDVPRIPKNDAPNRF WASVEPYCADITSEEVRTL EEL LKPPEDAEHYKIPPLGKHYSQ RWAQEDLLEEQKDGARAAAV ADKKKGMLMGPLTELDTKDVDA LLKKSEAQHEQPEDGCPFGALT QRLQLALVEENIISP MEDSPIPD MSGKESGADGASTSPRNQNKP FSVPHTKSLESRIKEELIA\QALL *AGDLLAKDSEDEVLAELRKR QG\EL\KALSAHNRTKKA\DLLR LAKEEVSQRQ\LRQR\VRRAERE GMDAFRKIHGLPGRKRKNSPPK K\EKDQAWKNS*KEREEHP
21295	51663	A	21423	107	331	

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21296	51664	A	21424	387	1071	NNPEWRTLIIYVDKENGEPEGTR VVAKDGLKLG\SGPSIKALDGR SQVSVTPRFGKTFDAPTQPYLKL PRKALG\TVNR\TTEKSVKDPGD PSNKKQPKLFRPKKDGPEEGLL KAKKPLFPGLQD*CIPIEIRKIPF PFNPS*TLRSF*PCPEEHPDCGTF PL*VGVPMLIPLTREREL*KSW FQLGPPFHLWKDGPLPWPWGIPIC LQFSFQGISVRTWGVADLPVCC DIDI
21297	51665	A	21425	480	1270	RSVKKVGAQRPGSGGGWGGN EGWVPQATAPGWAYTHVLFY LFVTPISAALRADGFGDNPFY HCLVAEILPAPGKLLGKSTWPL EVHLSSRPQRSPhRLPEALLPFS LSQG/HCVVGYGIYYFIYSTWK GRTIYLEDIYVMPEY/RGYWAE AEAGVGAKHPTDPTVIPCPQSP AGVIF*SPSAQTIAIFCLFLSTTG QGIGSKIHKVAEVALDKGCSQ FRLAVLDWNQRAMDLYKALG AQDLTEAEGWHFFCFQGEATR KLAGK
21298	51666	A	21426	182	797	LPFARPWDFGPRQRGSGWLPC GSREAKEGDCGDILRLIRVKTA GPelaEFekLFGSGERSVEEAL ESRLAFGDNPFYHLFW*AEILP APGESYWG/HCVVGYGIYYFIY STWKGRTIYLEDIYVIAGNIGV QGIGSQK*SKKV\AEVALGIRGC SPNFRLARPLD\WNPEGPWDLY KAPRSPKI*RKLEGWHFFCFQG EATRKLAKG
21299	51667	A	21427	224	490	QAGFISARNITWR*ANRRSTWR SYRRKSGRTANCPPISPACSRC SAPIFIPKNGWWRAMVAPLKW PSTGAFNRLFVPLLTWWRSPDR
21300	51668	A	21428	301	773	HGPGTQQRPRSIWRMPQ*ARPG GRSLAVGGGPRPRAAGGFP*VA SRARRCQR\AHGCHCAFSPSP ALLSQDAGLCQSRPLLLGQRRRC LSQEVWVSLGNVHFCQPPEDA ATTPSCPEALTAQGQQASVCDR VSHRFSTWSMVRCSDRTEGQR LQTLGD
21301	51669	B	21429	I	1380	

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21302	51670	A	21430	1	1660	AGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGKSMLLSAIGKREVPPEH IDIYHLTREMPSPDKTPLHCVM EVDTERAMLEKEAERLAHEDA ECEKLMELYERLEELDADKAE MRASRILHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNKKLKYYTGNYDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGSALKAR QAQSKEKTLQKMMA SGLTERV VSDKTLSFYFPPCGKIPPPVIMV QNVSFKYTKDGPCIYNNLEFGI DLDTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHSVHKIG RYHQHLQEQLDLDSPLEYMM KCYPEIKEKEEMRKINGRYGLT GAKQQVSPIRNLSDGQKCRVCL AWLAWQNPHMLFLDEPTNHL DIETIDALADAINFEFGMMLV SHDFRLIQQVAQEIVVCEKQTI TKWPGDIL\AYKEHLKSKLVD\

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21303	51671	A	21431	78	2022	NNSNLPLWVIIMPSDLAKKAA KKKEAAKARQRPKGEENG VVTEPQVAEKNEANGRE/TTRE VDLLTKELEDFEMKKAAARAV TGV LASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGIGKSMMLFAIGKREVP EHIDIYHLTREMPSPDKTPLHCV MEVDTERAMLENEAERLAHED AECEKLMELYERLEELDAD*AE MRASRILHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNNKKLYYTGNVDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGS AKLAR QAQSKEKTLQKMMASGLTERV VSDKTL SFYFPPCGKIPPPVIMV QNV SFKYTKDGPCIYNNLEFGI DLDTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHSVKIG RYHQHLQEQLDLDSPLYMM KCYPEIKEKEEMRKIIIGRYGLT GKQQVSPIRNLSDGQKCRVCLA WLA WQNPHMLFLDEPTNHLDI ETIDALADAIN EFEGGMMLVSH DFRLIQQVAQEIWVCEKQTITK WPGDILAYKEHLKSKLVDEEPQ LTKRTHNVCTLT LASLPRP
21304	51672	A	21432	313	599	
21305	51673	A	21433	737	1006	DNPVVVFVFGSVYMLDYVY*FS YVEPPLHPWDEAHLIMVDKLF DVLLDSVCQYFIEDFCINVNQG YWSKILFFCCISARLWYQDDAG
21306	51674	A	21434	1108	1260	GVNFNLSCFLLWAFSAIH FPLH TALNV SQRFWYVVS LFSLVSK NIFISAF
21307	51675	A	21435	804	917	
21308	51676	A	21436	158	298	
21309	51677	A	21437	1	1068	
21310	51678	A	21438	1	1188	
21311	51679	A	21439	122	352	
21312	51680	A	21440	647	662	ICGVISEGSLVFH*SISLFWYQY HAVLVT/DSL VV*FEVT*HDASS FVLLA*DRRPEGSSPKSP
21313	51681	B	21441	53	692	
21314	51682	B	21442	1	925	
21315	51683	A	21443	606	900	

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21316	51684	A	21444	33	852	CWKFWARAN*AGGITLPDFKL YYKATVTKTAWKFHFTMFGV DLKETCTAPSLWKDLALNTVE LVCKLCVRQVEGARQIFQLNCT VSE
21317	51685	A	21445	3	795	
21318	51686	A	21446	475	1023	CWFSAGDGGPLPGPDYQGDFAA HPAGAGALYKCRDLINDNILRT VSCQSHDDGDIRGMAFARQ*Q RPVQIDHNMARRG**AATFQPI NKTFSGIHWPHGMRTGGTNP FENIECTNHIHTLGLPFSEVERN DCDGFNFQLHIFRQTRDLHTAP GRIGRLMLIEELLIDFVDGGKII QIGDKHGH
21319	51687	A	21447	1637	2020	PSSEFTGGPARGFPERARAQL TGRTPGQRTQLDNDLLTKSTP WRGVMGPTLLPGLLAGPFQPL GHTGPFYPQGFRWQKTHWVRL AQAHWQF*LGQFRGPKTADGG GSKGPGLSASHGAKHHVITYV
21320	51688	A	21448	1051	1185	
21321	51689	A	21449	1290	2025	
21322	51690	B	21450	1	1410	
21323	51691	A	21451	3269	3678	SLSIRLATAPCWLRYPASSRRFQ PTRSAGSVTDSSVTASASSPG*R *NASP\CRERSHRSSRGQARRSL HLWDRSDR*TLPCDHGRCCCHA NDQQVGFAGNYSTAGQT*RWT GFTAGHAGRDINKSADKLPA T AGKR
21324	51692	B	21452	2655	2825	
21325	51693	A	21453	1	896	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNHSTTWKLN NLLLSDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKKRQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITTDPT\YK LPSENTTNTSTQIN*KI*KKWIN SSTHTLSQD

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21326	51694	A	21454	23	559	TPGLRQSSLSPSAFASQNAGVS GIGGFLVSLTSRMKPWTLAMFR CVWSFFLLVGSWSCWLQE*SC RPSQ*VSQFL/NSSASGVVCCSC LELFVPPGGFVVS LASRVKLQT FTVSVTAHKGGVDPKSEQQQD LVQKAKEHSFCSVEADLSGLPL LAGAACFYSLMEPHPHPADWSI LQRAD
21327	51695	A	21455	26	323	
21328	51696	A	21456	221	734	
21329	51697	A	21457	293	2103	PCHSALSSPLPHRDCIALCFLNS GTSFVAGFAIFSILGFMFQEQQ VPISEVAESGPGLAFIAYPRAVV MLPFSPLWACCCFFMVLLGL DSQFVCVESLVTALVDMYPHV FRKKNRREVLILGVSVISFLVGL IMLTEGGMYVFQLFDYYAASG MCLLFVAIFESLCVAWVYGAK RFYDNIEDMIGYRPWPLIKYCW LFLTPAVCTATFLFSLIKYTPLT YNKKYTYPWWGDALGWLLAL SSMVCIPAWSLYRLGTLKGPF EVII PVSIRMTKVAGTAGLSGN VGPRCDLSRIEELPDGGTRCGM DSRVSGTTSNGETKPVYPVME KKEEDGTLERGHWNKMEFVL SVAGEIIGLGNVWRFPYLCYKN GGVVGFYNSIKNIPILQRVILFV RIHNMLNKGQGV LAKCDAAK KIEEKEADAGSASVPGDVMRT KKLSFEGAWHPCLLVGLKLS ALELRGGFISARIAGPRAAESDS VGLERELRVCIANKLPG EADAA GPGTTFWKHCSMPITDGADAV EGRNTQEAFFRQLNPEAAFLHF MEMVDTNALHVHGIHTRKNHP GQKEAAHSQHGTFFIRWTLNLL KRTFQKGNRAEPNSPAM
21330	51698	A	21458	1	419	MKLRTLAVSATALKVARLEFV PFDVRMCSEFLSSGVKLQTFV SVTALNALRLELFVPPGGLMVS LASGVKLQIFTVSVTAHKSSVD PKTLG/CVDGTGRRGAGGGAH RGGLGRTGAHGGGGRLRHGGL QVSSPAPRKGS

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21331	51699	A	21459	24	1639	GGMDSRVSGTTSNGETKPVYP VMEKKEEDGTLERGHWNK EFVLSVAGEIIGLGNVWRF CYKNGGGAFFIPYLVFLTC VFLLETALGQYTSQGGVTAW KICPIFEGIGYASQMIVILLN YIIVLAWALFYLFSSFTIDL GCYHEWNTGNWVDVVE/HGG GEWCGNGSNTPHVCR/VTGW W*SRWLKGMVWEWIQHTPCV QGTGWTW*STWLKG/PGNRV VVEHVAEGNGVGMPTHTPCA GNRVDVVEQVAEGNEHCMEF QKTNGSLNGTSENATSPVIEF DSPPGPQFVCVECLVTASIDM PRQLRKSGRRELLITIAVMCY LIGLFLVTEGGMYIFQLFDYYA SSGICLLFLSLFEVVCISWVYGA DRFYDNIEDMIGYRPWPLVKIS WLFLTPGLCLATFLFSLSKYTPL KYNNVYVYPPWGYSIGWFLA LSSMVCVPLFVVITLLKTRGPFR KVGGVGESDLLKEGTERGWT WGRTHNWGQGADTNSECGAA LQSHRILTRRTLKTSPVAFQKCS
21332	51700	A	21460	1358	4787	RRCYCGIWSRYLLKRLWKWIS GEGWAEKDSARRRGICTFWLE FE/VTCLSWNSLF/YAHINVDISG MKVPWLYVGMCFSSFCWHIED HWSYSINYLHWGEPKTWYGVP SHAAEQLEEVRELAPELFESQ PDLLHQLVTIMNPNVLMHEGV PVYRTNQCAGEFVVTFPAYHS GFNQGYNFAEAVNFCTADWLP IGRQCVNHYRRLRRHCVFSHEE LIFKMAADPECLDVGLAAMVC KELTLMTEEETRLRESVV
21333	51701	A	21461	1	5773	MEEKPLKVKGKDSSEKKRRRK LEKVEQLFGEGKQKSKELKKM DKPRKKKLKLGADKSKELNKL AKKLAKKEERKKKKEKAAAK VELVKESTEKKREKKVLDIPSK YDWSGAEESSDENAVCAAQN CQRPCDKVDWVQCDGGCDE WFHQVCVGVSPEMAENEDYICI NCAKKQGPVSPGSHKAVITVV VKAVSYLKFEESTSELMWLL AAFSSFWVGICALDFVWPLA REEKEIGDNKDLERNKIGVNM

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21334	51702	A	21462	85	1333	STSRALSGAQRFGRLIDHGARV PALLLLLLPL\VHVSATTPEPR\IE LDDEDFRCVCNFSQPQDWSEA FQCVSA\VEVEIHAG\GLNL\EPF LK\RVADADADPRQYA\DTVKGF PR\VRASQVGAAQVPA\QLLV GALR\VLA\YSRFKELTLEDLKI TG\TMPPLPLEATGLALS\SLRLR NVSW\ATGRSWL\AEL\QQWLK PG\LVLSIAQAHSPAFCSEQVR CFPGPSPA*DLSDNPGTGANAE LMAALCPHKFPA\IQNL\ALRNT GNRRPQGVCAALAAAGVQPH SLDVSHNSLRANRNP\AP\RCM \WSNA\LNSPQICRFAGAGTGVP KGPAPAKL\RVLRSSACNRL\NR A\QPWTSLE\VDNLGQLDGNP FPGSPGTGPSPTGSMN\SGVVP SLCNVRTCRVGVSGTLVLLQG ARGFA
21335	51703	A	21463	1640	5804	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEHIHHIDLVDRTTLRNHV FFRDYGAQKQRELFYILLAYSE YNPEVGYCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
21336	51704	A	21464	1	960	
21337	51705	A	21465	1	1317	
21338	51706	A	21466	1	3393	
21339	51707	A	21467	2745	6141	QGSKGTCHPQAQQPWDEGVW QEAPSQSEPWGQSQEPPTMPQR LPHARQHTPLPLGSADYRRVVS VRPQGPHRDPKDSRDAAKREQ GSLAPRPVPASRGGKTLCKGYR QAPPGPPAQFQRPICSASPPWAS RFSTPCPGGAVREDTYPVGTQG VPSLALAQQGPQGSWRFLWK SMPRLPTDLDIGGPWFPHYDFE RSCWVRAISQEDQLATCWQAE HCGEVHNKDMSPPEEMSFTAN SSKIDRQKVPTTEKGATGL
21340	51708	A	21468	65	320	
21341	51709	A	21469	3	505	

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21342	51710	A	21470	2	1756	CRCHSELSSGSSL*/CCTRGIGGAI GAVGFRSQAASLAGQPDGNG VCVHAGNSRIFVPLPVGLEVKG FSHSAFTFGIESHISQSNINGTLV PPSALISILQKGLQYVEAEISINK DGTVFDSRPIESLSLIVAVIPDV VQMRQQAFFGEKLTQQQASAA ATEASAMAKAATMTPAAISQQ NPPKNREATVNGEENGAHEINN HSKPMEIDGDVEIPPNKATVLR GHESEVFICAWNPSDLLASGS GDSTARIWNLNENSNGGSTQL VLRHCIREGGHDVPSNKDVTSL DWNSDGTLLAMGSYDGFARIW TENAPALDVDWQNNMTFASCS TDMCIHVCR LGCDHPVKTFQG HTFCTCIESICFWGGLRKLTTM TEGKRLRPKTFCSGGALLPPA GRRPHLLTGPDIFFKRLSALFQN EVNAIKWDPSGMLLASCSDDM TLKIWSMKQDACVHDLQAHSK EIYTIKWSPTGPATSNPNSSIML ASASFDSTVRLWDVEQGVCTH TLMKHQEPVYSVAFSPDGKYL ASGSFDKYVHIWNTQSGSLVHS YQGTGGIFEVCWNARGDKVGA SASDGS\VCILWQLSGKQ
21343	51711	A	21471	1	1647	
21344	51712	B	21472	4	267	
21345	51713	A	21473	1	1824	
21346	51714	A	21474	33	543	TFEGANNFVGDPIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVGRKRDSRN DYCCFA\AFPRIKGLLYRKMPM /RNLTVNSSNSIKAKENPKLLLA SPLRSGSESSITLKGEILLLECF AEGLP TPQVDWNKIGGDL PKG REAKENYGKTLKIENVY
21347	51715	A	21475	197	516	TYLAAGRTPTLDPWNQERCTM PSGSIWILETHSSFGWVTVAH LSSDPKGCQF*VGSRIGEGSATD PAFCASCSATWTIRPSRNGA*G VNG**VCWLEPLAGPHR

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21348	51716	A	21476	1	1766	MNVALTHIDTHHAEFEMALQA ALVWNTLRTAGGKKS VHLSA LLVHEIHDGANLTISNVTLEDQ GIYCCSAHTALDSAADITQVTV LDVPDPENLHLSEQRNRSVRL TWEAGADHNSNISEYIVEFEGN KEEPGRWEELTRVQGGKTTVIL PLAPFVRYQFRVIAVNEVGRSQ PSQPSDHHETPPAAPDRNPQNIR VQASQPKEMIIEWEPLKSMEQN GPGLERYVTWKPGAPVEWE EETVTNHTLRVMTPAVYAPYD VKVQAINQLGSGDPQSVTLYS GEDLPEQPTFLKVIKVDKDTAT LSWGLPKKLNGNLTYLLQYQ IINDTYEIGELNDINITPSKPSW HLSNLNATTKYKFYLRACTSQ GCGKPITEESSTLGEGSVSLEKC ENKLIRNIGTKKQGTAIRIPENV EAALELRKQKLEECGGFRRRE NANEQQGVTEEFKQQNEKLRF LLLKIVILAVAREMTWNGEGR DLSEPSLTVVFADLSSPAYSLHT TMAQEPGPGLFLSLSTIPWPIS PMIHASVQVSWIPLLRNSLMVH IHSSLEQRNLKVHISKEQKKLNS VDSDLTDNPPTHTVN
21349	51717	A	21477	1	1440	
21350	51718	A	21478	266	3974	RAMEPLLLGRGLIVYLMFLLK FSKAIEIPSSVQQVPTIHKQSKVQ VAFPFDEYFQIECEAKGNPEPTF SWTKDGNPFYFTDHRHPSNNS GTFRIPNEGHISHFQGKYRCFAS NKLGIAMSEEIEFIVPSVPKFPK EKIDPLEVEEGDPIVLPNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVEEKDSRND YCCFAAFPRRLRTIVQKMPMKLT VNSLKHANDSSSTEIGSKANSI KQRKPKL

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21351	51719	A	21479	1	2421	QAGAMASGSVAECLQQUETTCP VCLQYFAEPMMLDCGHNICCA CLARCWGTAETNVSCPQCRETF PQRHMRPNRHLANVTQLVKQL RTERPSGPGGEMGVCEKHREPL KLYCEEDQMPICVVCDRSREHR GHSVLPLEEAVEGFKEQIQNQL DHLKRVTRLKFTDFLAQGEQA RAELLSLTHMEREKIVWEFEQL YHSLKEHEYRLRLARLEELDLAI YNSINGAITQFSCNISHLSSLIAQ LEEKHQQPTRELLQDIGDTLSK AERIIRIPEPWITPPDLQEKIHIFA PKCLFLTESLKQFTEKMQSDME KIQELREAQLYSGGSIVGGHEP GEPRGIKAGYGTNCNCFPEEEKC FCEPEDIQDPLCDEL CRTVIAAA VLFSFVSVLLSAFCIHCYHKF AHKPPISSAEMTFRRPAQAFPVS YSSSGARRPSLDSMENQVSVDA FKILEDPKWEFPRKNLVLGKTL GEGEFGKVVKATAFHLKGRAG YTTVAVKMLKENASPSEL RDL LSEFNVLKQVNHPHVIKLYGAC SQDGPLLLIVEYAKYGSRLRGFL RESRKVGPGYLGSGGSRNSSL DHPDERALTMGDLISFAWQISQ GMQYLAEMKLVHRDLAARNIL VAEGRKMKISDFGLSRDVYEE DPYVKRSQGRIPVKWMAIESLF DHIYTTQSDVWSFGVLLWEIVT LGGNPYPGIPPERLFNLLKTGH

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21352	51720	A	21480	79	2253	PSATLSCPTSVAAASLGEPAVFPL SLRGHRRRHRPGHSPSVRGRV WDTGPGGAALRPPGASQEQR GESAGELGSVQSSAPGMPVVRP RRPGAMASGSVAECLQQETTC PVCLQYFAEPMMLDCGHNICC ACLARC\WGTEET\NVS\CPQCR E\TFPQRHMRPNRHLANVTQLV KQLRTERP\SGPGGEMG\VCE\K HREPLKLYCEEDQMPICVVC DRSREHRGHSVLPLEEAVEGFKEQ IQNQDLHLKRVKDLKKRRRAQ GEQARAELLSLTQ\MEREKIVW E\FEQLYHSLKEHEYRLARLEE LDLAIYNSINGAITQFSCNISHLS SLIAQLEEKQQQPT\RELLQDIG DTLSRAERIRIPEPWITPPDLQE KIHIFAQK\CLFLTESLKQFTEK MQSDMEKIQELREAQLYSVDV TLDPDATYPSLILSDNLRQVRY SYLQQDLPDNPERFNL\FPCVLG SP\CFIAGETIIWEGRGWGDKAK WTIG\VC*RLSCQEKGGVTSAP QNGFWA\VS LWYGK\EYWALT SPMTALPLRTPFQ\RVGIFL\DYD A\GEVSFYN\VTERC/HTPFTFSS CLPFGGLVRPLLSSLSYSGREK VQLPLINLPP*SGIDGGFLAHVG \NHGSFPWKTFPFEGRVNSGPK GLLA VILRPGTRHLVCLANVLS KLGILNHVPRPCSGRHGCPCSLP SFFLPMQIVKCNEMYQDILEIKT
21353	51721	A	21481	1	1068	

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21354	51722	A	21482	955	2548	MSLCGARANAKMMAAYNGGT SAAAAGHHHHHHHHLPHLPPP HLHHHHHPQHHLHPGSAAAVH PVQQHTSSAAAAAAAAAAAAA MLNPGQQQPYFSPAPGQAPGP AAAAPAQVQAAAAATVKAHH HQHSHHPQQQLDIEPDRPIGYG AFGVVWSVTDPRDGKRVALKK MPNVFQNLVSCKRVFRELKML CFFKHDNVLSALDIL*PPHIDYF EEIYVVTELMQSDLHKIIVSPQP LSSDHVKVFLYQILRGLKYLHF RLGILH\RDIKPGNLLVNSNCVL KICDFGLARVEELDESRHMTQE VVTQYYRAPEILMGSRHYSNAI DIWSVGCIFAELLGRRILFQAQS PIQQLDLITDLLGTPSLEAMRTA CEGAKAHILRGPHKQPSLPVLY TLSSQAT\H*TGHLLFAECGFDP SKRISAKDALSHPYLDEGRRLRY HTCMCKCCLSPS\TGRVNT\SDL EPVT\NPKFDDTFEKNLSPVRQV KEIIHQFILEQ\QKGNRV\PLWIN PQSAVFKSFISSTVAQPSEMPP\S PLVWE
21355	51723	A	21483	119	692	SYKSRLARKS\TGGKAP\RKQLA YKKPASQECGPLTGGVKKPHR YR\PGTVAAP*NLDGYQKSTE\L MIRK\LRFQR\LVREIAQ\DFKT DLRFQSAVIRWLCRMAS\EAYL VWPFLKDTNLVCLSMPCRVTIY AKKTFQLSTPASRGERALRIHS WMGKHFILKKKKKKFLFFLL VVLNVRYFFFHGVKRYLSI
21356	51724	A	21484	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL

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21357	51725	A	21485	1	1468	MRNLRNIQKAKATINLGISFDE GLKGFMSWSRIEAAPLPNTRWC LPHGYSGPANSGGCYYITTGMS CWLSLDLYPRHDGVHVGGLQKK DLEHDIPVDLGSRPSTVDPVSR APGPQGPAPVDSGSRTTPANP GAGPSPVDPSSRPAPVASGFRLI MIDQNTKLIPVPGWPLRLRLKI YLSSRSASLDGSRFAPVDTNFI PVPTDRGHSHAPEDPVDRLTSV DPTKEKNWMENEFDKLTEVGF RRSVITNFSELKEHVLTHRKEA KNLEKRLDEWLSRITCAEKSLN DLMELKTTVRELREAYTSFMS QFDQAEERISVIEDQINEIKLKS L QAQEDARHRNTDQRSSNNRRS EPWSLEERKREQWNSLKQNAD QQDTEAMSDYK/RYSSET*RRR *LFCLLRKVHSKEGP*KKDQRE TRNQKGLGFLDRPQWVSGKM KQECLQLGTPWP*IIIGWQYFP RDGMGVRTDFCRIFQRLARMR LCEGCLMNS

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21358	51726	A	21486	1	2589	MSPVTLWVRTSSRGEDRCGMC TPGRDTGFAPISGMCSKYRSCTI NEDTGLGLAFTMPMSLDTKHIP NFGKVHGYIMRHHKNEDTIPW RRNTKKEEARGTQPLEADDQN PGWEDGKPGSLENEGRSHRG NPAPDMPQPPKEDLILPDEYK SCLRHKRSLLRSHRNEELNVET LVVVDKMMQNHGHENITTY VLTILNMERILKKTSTIIHPSA MERCPLNLQIRDSLWNHCFSL ATTVHRFHPVGRHALKKMYKL PSAYINVSITKYTORFALTYISC VFHRNAAFVAVPGEGRCAGV DVPAPMSLRSPGPHWPQEHGA LWISCTVRGMASCLGQLCRVS MRVRANIGKVQKPRLRISNGK GLHTQSELGSAYLEKGWRGA APGLDSRNEKGTEGARDSGTPG RQSQTLQRGPPGPVPGSSKIAPQ TLTRQGSMTASRKLVLLEPFC ERTGEQSGQLYPPSPLLVEWV MPAGTSSTVDPLLPELCRRWER QALSLCRLYRQRTSVSIKALCD HTETRSVALSTCQGLECNSSPA RKQNWMEFEELTEVGFRKS VITKFSKLKEHILTHRKEAKNLE KRLDEWLTRITSVEKSLNDLME LKTTVRKILHEAYTSFNSRFDQ VEERILVIEHQINEIKQEDKVRE KRVKRNEQSLQEIWDCVKRPN LCLIGVPESDGENGTKLENTLQ
21359	51727	A	21487	260	1292	RLCAFNKRMTFQFNFTIEDHLE NELTPIRDGALTLDSSKELSVSE SQKGEERDRKCSAEQFDLPQD HLWEHKSMENAAPSQDSDSPL SAASSSRNLEPHGKQPSLRAAK EHAMPKDLKKMLNENKVIETLP GFQHVKLSVVKTILLKENFPGE NIVSKSFSSHDLITGVYEGGLK IWECTFDLLAYFTKAKVKFAG KKVLDLGCGLGGLGITAFKGG KEIHFQDYNMVIDEVTLPNV VANSTLEDEENDVNEPDVKRC RKPKVTQLYKCRFFSGEWSEFC KLVLSSEKLFVKYDLNLTSETIY NPDYYSNLHQTFRLRLSKNGRV LLASKAHVQRNSLSRL

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21360	51728	A	21488	263	1466	RLCAFNRMTFQFNFTIEDHLAE NELTPIRDG\ALTLDSSKELASVS ESQKGRKE\RDRCSCAEQF\DL P QDHLWGNISSMGKWQAPS\QG HRTSSTSVAASSRNLAEPHGKT ALLAGAGQSRMAMPKRF*RRCL LEN*SPLETLPGFQHVKLSVVK TILLKENFPGENIVSKSFSSHSDL ITGVYEGGLKIWECTFDLLAYF TKAKVKFAGKKVLDLGCGSGL LGITAFKGASKEIHF\QDYNMVS IDEVTLPNVVA\NS\TLEDGGKM DVKWSPDVEKMPGNPKVTQ\L YKCRFFS\GEWS*VL*ALYLSSE K\LFVKYDPHSSPSET\YNP\DY YSNLHQTFRLRLSKNGRVLLA SKAHYFGVGGGVHLFQKFVEE RDVFKTRILKIIDEGLKRFIIEITF
21361	51729	A	21489	2	367	
21362	51730	A	21490	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFDTKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
21363	51731	A	21491	1	690	
21364	51732	A	21492	1	714	
21365	51733	A	21493	1	1536	
21366	51734	A	21494	1	765	
21367	51735	A	21495	1	972	
21368	51736	A	21496	1	2670	
21369	51737	A	21497	2	1178	
21370	51738	A	21498	2	827	
21371	51739	A	21499	1	777	
21372	51740	A	21500	168	1057	IRLKNDDHGDGELRNKTICINRL AEIKKFSENYENKETMYLNLW DVAKAVLRGQFIALNARIKKLE KSQVYNLISQLKELENQEQTNP KASRRQEITKIRAEKKEVETWK TLKKINESGRGVDCSS/DASNGT KPDGE*L**VDKSR/PSEARQAN IHIQEIHGTPQR*SLRRATPRH/II VRFTKVEMKEKMLRAARKKG WVTHKGKPIRLTADLLAETLQ ARREWGPIFNILKEKNFQLRISY PAKLSFIREGEIKAFTEKQILRDF VTTRPALQELLKEALNMERND RYQPLQKHAKL

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21373	51741	A	21501	3	1263	GRTIQTKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERSAM EDEMNEKQEGKFREKRIKRN EQSLQEIWYVVRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTQOR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTRPALKELL KEALNMERNNRYQPLQNHAK
21374	51742	B	21502	1	2356	
21375	51743	A	21503	2	484	
21376	51744	A	21504	2	902	ASFFSKKTSFGGGWGAGGPGD PGMGNHGGFRGGFSRGIRGWG HSRGQGPQGGRGAHRGKTKDK EWT SIPKLGH LVKDMKIKFLEEI YLFFLAIKEFEIIDFFLGASLKDE VLKIMPVQKQTHASQRTLRKG FIVIGDYNG/HVGLGVKCSKEV A/TAIRGAILG*LSIVPMCRGY WGSKIGKPHTVPCKVTGHCGS VLVHFIPAPRG TGIVSVPM P/KK LLLMAGIYDCY/ARSCTATLGN FTKATFDAISK TYSYPTPNLWK ETVFTKSP/YEFRNSGQEFTDYL VKT/HIRVSVQRTQAPAVATT
21377	51745	A	21505	2	407	STISCGGNFPIPRGGSGVASLER AESSSTEPAKAIKPIDRKS VHQI CSGPVVP SLSTAVKELVENS LD AGATNIDLK LKDYGVDLIEVSG NGCGVEEENFEGLTLKHHTSKI QEFADL\LS DVTISTCHVSAKVG
21378	51746	A	21506	362	490	
21379	51747	A	21507	3009	3889	
21380	51748	A	21508	1	504	LDDLHKWFLSSFLLT AISIGIKF LLKIHISRGSGVLLQLLPGNPSP AAHGTEELEPKFLEQGYLRAVL PGPRVHATA*LEPTVTDQGYAR AGLPIQEVEDVLFGVLVLLHV IGQVAEDRNQVAAQGH HQES/C PAQCWGDCTHLEIAGWRGIRRS DANPRSQRKGFG

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21381	51749	A	21509	2	1101	WTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WWMKCDWHQPLG*IPAPHV GPLAG/IRKKEWSDESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSPILPEHHKDFNSQLAP GVDPSPPHRSFCWKRKREWW ESESLEEEPRKVLAPPEEIVV AEMLCGLKMKLKRRLVSLVLP EHHEAFNRLLDPVIKRFLAW KDLRVSDKYLLAMVIAYFSRA GLPSWQYQRIHFFLALYLAND MEEDDEDPKQNIIFYFLYGKTRS RIPLVRNRRFQLCRCLNPRARK NRSQIALFQKLRFQFFCSMSG AWVSREELEENTGPRGDVDFQ QELYSNANGRQQERGEEPFVQI
21382	51750	A	21510	3	918	
21383	51751	A	21511	1	792	
21384	51752	A	21512	3007	3885	
21385	51753	A	21513	615	845	GHTASPPPRSPQAQGRAPSVAP PPTTPQICPTTPSSFSSKRTYAG GWDLPQGQADC*SPCGAQGG WVTLAVASASS
21386	51754	A	21514	357	562	GSSTCGRETERVVLKKRKRSP HFQYRNSPTAEARPQLE\PTQW GRRSHSPRPSAPLPCSCPQKSRK SV
21387	51755	A	21515	1	1335	
21388	51756	A	21516	537	1164	SSTEPAKAIKPIDRKSVHQICSG PVVLSLSTAVKELVENS LDAGA TNIDLKLDYGVDLIEVSDNGC GVEEENFEGGLISFTLKHHTCKI QEFADLTEVETFGFQGEALSSL CALSDVTISTCHASVKVGTRLV FDHDGKIIQETPYP\HPRGTTVS VKQLFSTLPVRHKEFQRNIKKR ACFPFAFCRDCQFPEASPAMLP VQPAELMAV
21389	51757	A	21517	224	903	GFTWYIGMAQPKQERVARARH QRSETARHQRSETAKTPTLGNR QTPTLGNRQTPTLGIHARPRRR ATTSLLTLLRAFGKKTQS/STEP AKAIKPIDRKSVHQICSGPVVLS LSTAVKKIVGNSLDAGATNIDL KLKDYGM DLIEVSGNGCGVEE ENFEGLSWDSTGVFDHDGKIIQ KTPYPHPRGTTVSVKQLFSTLP VRHKEFQRNIKKPVGEKYMRS VDTQACSCI

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21390	51758	A	21518	2	1321	VKSRAALLGPGA/LSPLEVSRRR PWTERRLGSRGDRRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WWMKWCWDHQPLG*IPAPHV GPLAG/IRKREWSDESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSSILPEHHKDFNSQLAP GVNPSPPHRSFCWKRKMEWW DQSEESLEEEPRKVLAPPEEIW VAEMLCGLKMKLKRRRVSLVL PEHHEAFNRLLDPVIKRFLAW DKDLRVSDKYLLAMVIA YFSR AGFPSWQYQRIHFFLALYLAND MEEDDED SKQNIHF LYRK NRS RIPLL RKRF QLGHS MNPRARK NRSRIPLL KRRF QLYRSTNPRA RKNRSRIPLL KRRF QLYRSMN SRARKNRSQIVLFQKRRFHFFCS MSCRAWVSPEELEENTGPRGD VDFQQELYSNANGRHQAGGEE

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21391	51759	A	21519	1	2654	RSACGSPA WNFPSPRGGSGVAS ME\RAESSSTEPAKAIKPIDQKS VHQICSGQVVLSTAVKELVE NSLDAGATNIDLKLKDYGVDLI EVSDNGCGVEEENFEGLTLKH HTSKIHEFADLTQVETFGFRGE ALSSLCALSDVTIFTCHASAKV GTRLMFDHNGKIIQKTPYPRPR GTTVSVQQLFSTLPVRHKEFQR NIKKEYAKMVQVLHAYC\SFQ QASV*VAPISLDK/RKRQPVVCT GGSPSIKENIGSVFGQKQLQSLI PFVQLPPSDSVCEEYGLSCSDA LHNLFYISGFISQCTHGVGRSST DRQFFFINRRPCDPAKVCRNVN EVYHMYNRHQYPFVVLNISVD SECVDINVTDPDKRQILLQEEKLL LAVLKTSLIGMFDSNVNKLNVN QQPLLDVEGNLIKMHAADEK PMVEKQDQSPSLRTGEEKKDV SISRLREAFSLRHTTENKPHSPK TPEPRRSPLGQKRGMLSSSTSG AISDKGVLRPQKEA VSSSHGPS DPTDRAEVEKDSGHGSTSVDSE GFSIPDTGSHCSSEYAASSPGDR GSQEHVDSQEKAPETDDSFSDV DCHSNQEDTGCKFRVLPQPTNL ATPNTKRFKKEILSSSDICQKL VNTQDMSASQVDVAVKINKKV VPLDFSMSSSLAKRIKQLHHEAQ QSEGEQNYRKFRAKICPGENQA AEDEL RKEISKTMFAEMEIIIGQF
21392	51760	A	21520	238	413	
21393	51761	A	21521	288	467	
21394	51762	A	21522	1	3038	MDVGWDLGEDCWQEHHTAF SFDCWPCSQNGDRVPSVNPVG GGAPRSYLQVASAECWAAAPA VHVGEVHAGGLHTEGADPV IGLYLVHRRGGACQTPVGNRQ TPTLGIHARRRRATTSLTLLL AFGKNAVRTEPAKAIKPIDRKS VHQICSGPVVPSLSTAVKELVE NSLDAGATNIDLKLKDKESGLI KVQANEWGVEETSKGLLLKH HTSKIQEFADLPQVETFGFRGE ALSSLCALSDVTISTCHV
21395	51763	A	21523	34	256	ETGPPGSAPGRLEFTNIKR VVVP QERVELETLLVSYFSRTPRRTP PPFPHPCS*EDNVITVFSSIKNGP GSSR

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21396	51764	A	21524	727	2953	HVSGYDDVPLGTLSLDIWPPAL FSVVSFAAFFFTPIEAVLKSFSCLLVWYIGMAQPKQERVARARHQRSETARHQRSETA/KTPTLGNRQTPTLGNRQTPLGIHARPRRRATTSLLTLLRAFGKKTQS/STEPAKAIKPIDRKSVMHQICSGQVVL SLSTAVKKIVENSLDAGATNIDLKLDYGMDLIEVSGNGCGVEEENFKGLTLKHHTSKIQEFADLTRVETFGFRGEALSSLCALSDVTISTCHVSAKVGTRLVFDHDGKIIQKTPYPHPRGTTVSVKQLFSTLPVRHKEFQRNIKKAQR/PQAR/CYRCS*PNVSPGPGMAAASTLSA*PRSQSSYFISCKA/EDNAICPIAEQKAEGKFSSRYRNHDSAENRRDGSMTRPRTDWTLKRACTEKRRPQHASSFEWRGHSCLWDR EQRDAETLKMLLDSGLSVQKKTKDRTETRFGEMGQILGKIMMSHQPQPQEEQSPQRSTSGYPLQEVVDDEVSGPSAPGVDPSPRRSLGWKRKRECLDESDDPEKELAPEPEETWVAETLCGLKMKAKRRRVSLVLPEYYEAFNRLLDEPVIKRLLAWDKDLRVSDKIPSEPTILGASPKTLPPASRICIRPSNTPPPRNFMSTVTPMLSYLANDMEEDDEAPKQNIIFYFLYEETRSHIPLLRELWFQLCRYMNPRAKNCSQIALFRKYRFHFFCSMRCRA

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21397	51765	A	21525	1054	2349	SCPQIIFLSSCLQVASAECWAAA PAVHVGEVPVHAGGLHTERGAD PVIGLYLVHRGGACQPTPTIGSR QTPTLGIHARPRRRATTSLTLL LAFGKNAVRCALIGPGSLTSRT RPLTEPLGEKERREVFPPRPER VEHNVESSRWEPRRRGACGSR GGNFPSPRGGSGVASLERAES SSTEPAKAIKPIDRKSVHQICSG PVVPSLRPNAVKELVENSLDAG A\TNVDLKLKDYGVDLIEVSG\ NGCGVEEENFEGL/TLSALKH HTSKIREFADLTRVETFGFRGE/ AL*ASLCALSDVTISTCHVSA\ VGTLTGVFDHDGKIIPENPPNPH PRGTTVSVKQLFSTLPV\RHKEF QRNIKKKRA\CFPFAFCRDCQFP EASPAMLVQPAELTPR\STP\PH PCSLEDNVITVFSS\VKNGPGSS KMICTNGSSPSS
21398	51766	A	21526	2	393	
21399	51767	A	21527	2	165	
21400	51768	A	21528	3	196	
21401	51769	A	21529	1	411	
21402	51770	A	21530	1	1727	GPQGVGRMAEGKAGGAAGLF AKQVQKKFSRAQEKVLQKLGK AVETKDERFEQSASNFYQQQA EGHKLYKDLKNFLSAVKVMHE SSKRVSSETLQFIYY\SEWYGHEE LKAIVWNNDLLWEDYEKLA DQAVRTMEIYVAQFSEIKE\RIA KRGRKLVLDYDSARHHLEAVQN AKKKDEAKTAKAEFEFNKAQT VFEDLNQELLEELPILYNSRIGC YVTIFQNISNLRDVFYREMSKL NHNLYEVMSKLEKQHSNKVFV VKGLSSSSRRSLVISPGVRTATV SSPLTSPTSPSTLSLKSESESVSA TEDLAPDAAQGEDNSEIKELLE EEEIEKEGSEAGSSEEDDPLPAC NGPAQAQSPPTTERAK\SQEEV LPSSTTPSPGGALSPSGQLSSSA TEVVLRTRTASEGSE\RPKKTAS IQRTSAPRRPPPPRATASPRPCS GNIPSSPTASGGGSA\TSPRASL GTGTASPTSLEI*PNPE\PEK VRTPEAKENENIHNQNPEELCT SPTLMTSQVASEPGEAKKMED KEKDNKLISADSSEGQDQLQVS MVPENNNLTAPEPQEEVSTSEN
21403	51771	A	21531	1	1530	

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21404	51772	A	21532	499	1587	HPRDPEAPSGPLWSASLPALYS QGHANEFDGSNSTSHAVLVLV QKHIKAVLSNKLCLSTSSLVQG VNAHLGTLIWPQPRGYLSRSA IPWFSVPTVTSGLHFPWEVQ*LF LLSCWGKAHQSLPQRMPLLC CQGMWVPEGSMATVGLSQQLF DSALLLLQKAGALNLDITGQLR SDDNLLNTSALGR LIPEVARQF PEPMPVVLKVRLGATPVAHGS TQTTATLRPASPFVGGSWATGP PNSAFPSPSSP/CLVVVNLRTPAS L/SSKGEALREHVCAWMSQL TVASSNVGFIDTDQVRTLMGTV FEKPLLDHLNGLSLGHGELPSLV WVNLYHYVAPEIFVYEGYVVISS GTLLPEPEAKTTGRP
21405	51773	A	21533	1385	3111	IAPSEVKEHKMVMLEMLNPIHYN ITSIVPEAMPAATMPVLLLTGLF LLVWNYEGTSSIPGPGYCMGIG PLISHGRFLWMGIG\SACNYYN RYVGEFMRVWISGEETLIISKSS SMFHIMKHNHYSSRFGSKLGLQ CIGMHEKGIIF\NNNP ELWKTR PFLYERLCHAPASVRMVTVCA ESLKTHLDRLEEVTT\ESGLCG TCLTLLRRVHGWDTSNVFL\G IPL\ESAI VVKIQG\YFDAWQAL LIKPDIFFKISWLYKKYE\KSVK DLAKDA\EVLIAEKRRRISTEEK LEECMDFA TELILAEKRGDLTR ENVNQ CILEMLIAAPDTMSVSL FFMLFLIAKHP\NVEEAIKEI\QT VIGERDIKIDDIQKLKVMENFIY ESMRYQP VVDLVMAQSL*EG* C*SMGYPV\KKGTNIYSWNIG\R VHRL*FFPKPNEFTLENFAKNV PYRYFQPF GFGPRGCAGKY/LS AMVMMKAIL\VTLLRTDST*RT LPGTSVFESI QEGYTTC PWHPD\ ETKNMLAEMDLYPKETSDRCLG TLRRKAGQYLT LGAFSPSVCSP TNHPILCPLVFILHSGT LSGPMA
21406	51774	A	21534	129	378	IVCKFSVSTHKNIRAKKPDRLP ECGTQIRKDTLKRVRRTVLHYL C\PPPSVPEIPA WR\GDCSP/VGK EGKCTPDLNPNIELRPV

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21407	51775	A	21535	1	474	MQKQIISVTEVEWYPKYNSNM KEYWSTQNHQFEQLSTHKNIR AKKPDERLPECGTQIRKDTLKR PCPLDRPLWPHITAEQGSKPST WPAPCDP/IF*ANIHLPSLHTGPC RSKVQAHSSRPGCQASSTCVPR LQDLPC*PRFRLTLVDQDARPA APVYQGSRTYPADPDSRPAPVD SGCIISGQADW
21408	51776	A	21536	2	325	
21409	51777	A	21537	2	1011	WAFSITERREFQVYYNSCPSSS WIGDARAFSPDPDTGLYPIYSQ DTQTFRLWLNYNNTDFGPSPAC KWQAMELLSPQSPFRVDRGEH LPFLVKGARYTLVPAGQEGAL AAWLEALRGQLGRRGAVVSM MDAEGLERSSPDCAMGLSDGE WQLVLNVWGKVEADIPGHG\Q EVLIRLFKGHPETL\EKFDK/FTR HLKSED\EMKASED\LKKHMCH TVLTPLVGHILREKGGH*RQR FKPLGTSSHCHPSTKIPPLKVTL EFHLPGIAFIQVLAEQAI PGDFG\ AECPGAQLKQRPWELFRKNNG LPTYKEAGAFQGARALAGFPTP THLGPPGFKKRAGV
21410	51778	A	21538	157	322	
21411	51779	B	21539	1	975	
21412	51780	A	21540	218	388	RKLPLAGLPCINRQHS*SNVNIC FLTPV*KIQN*LQSEQFLPYPTIV IITLCFFAV
21413	51781	A	21541	663	933	GCAGPCLVNQMFGKQYYLGKS HHP\SLVSLNRGAHCTVGKPQG PSGP*KLGYYFKVFPPCG*FWK YGPSWGMEERA WTGSPLGPGP PLKKV
21414	51782	A	21542	389	1033	NQGLRNLGLCRTCLVNKMFTS SILGKSHRHSLVSINQGNALW KAAG\PLPLKAGYC\QGFSPCHS LKYG\SWDEKDLTVPPDTLKG SVLRWISKRGKPLAVEIEEGHC L\CLPLGTECLGIK/PIVHLFNSE IGE\NRPYGG*DMFCSNGCLG* FL*LPLRCLG\GEKHKSGL/HVHI PVIVPPLELNYDIDSFAHMFV DLS\LIITLLSCYIPFC
21415	51783	A	21543	82	163	
21416	51784	B	21544	1	211	

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21417	51785	A	21545	71	1086	NMNLSLVLA AFCLGIASAVPKF DQNLDTK WYQWKATHRRLYG ANE EGWRR AVWEKNMKMIEL HNG/EKYSQ GKH\GFTMAMNA FGDMTNEEF RQMMGC FRNQKF RKGKVFREPLFLDLPKSV DWR KKG YVTPVKNQKQCGSCWAFS ATGALEGQMFRKTGKLVSLSE QNLVDCSRPQGNQGCNGGFMA RAFQYVKENGGLDSEESYPYV AVDEICKYRPENSVANDTGFTV VAPGKEKALMKAVATVGPISV AMDAGHSSFQFYKSGI\YF*PDC ISKNL DQGV LVVGYVFEGANS NNSKYWL VKNSWGP\EWGS\N GYVKIAKD\KNNHCGIATAASY
21418	51786	A	21546	170	412	LWLSFLLMHWH*IPLAAVS VFT VSN/PILDFS*IQLKTPKHFGNLG NTGFLGKQLRLLLRSLVSVSRL HCLLG YRRTQMPPL
21419	51787	A	21547	1	753	
21420	51788	A	21548	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDL PWEINPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLLKTHLTKLSH QLKKA WTILLPLSLLRIQACPR NAT
21421	51789	A	21549	1	753	
21422	51790	A	21550	291	671	
21423	51791	A	21551	10	453	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DL PWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGC LPWSFTLSGKSR FPGAGASTPQPLLLHP
21424	51792	A	21552	740	1010	TAMLLKQSLFGCLFTRTRMKF GAVTRIG\DL P*ETNPLSSCSLLR DKDPPTTSSPQTHQPKKHLTNF KSGCSPGRARSQSFLSLCSSTL
21425	51793	A	21553	134	358	TAMLLTQSLFGGLFTRTRMKFG AVIRIG\DLLWEINPLSSCSLLHE KDPPTTSGPQTDQPKKHLTNFK SSCSSPG
21426	51794	A	21554	392	645	

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21427	51795	A	21555	1	1900	MQNALESLSNRIEQVEERNSEL EDKFFELTQSNKDKEKRIRKYK QSLKEVWDYVKGPNLRIISVPE EEENSKSLENIFGEIIEENLPSLA RHLDNQIQEAQRTLWKLIAKRS LPRHIVIRLSKVKTKERILRAVR QKHQVTHLTCKESYKLVKVG WKRHFQMMDTKNEQGIKNEN HLIISIDVEKASDKIQQRFMIKTL SKIGIQGKYLVIAIYDKPTAN ITLNREK/LESIPSEKLKAFPLRT GTRQGCPLSPLFFNTVLEVLAR AIRQEKEIKGIQIGKEEVKLSLF ADDMIMYLENPKDSSRKLEWI KESNKVSGYKTHVHKSVALLY TKQ*\QAENQIKNRNPFAIAAKK KKKKKKKKKRSRIYLTKESK DLYKENYKTLTKEIIDNMNKW KHIPCSWMGRISIVKKL*LQKA IYKLNAILIKIPLLFTELEKTILK FIWKSNS\RIAKVILSKKNKSG GITLPDFKLYYTIRKINSKWIKD LNLRPETIQILEDNIGKTLLEIGL GKDFMTKNPKANAKKTKINR WDLIKLKSFACTAGTVSRVKRT HRVGENLPHYTSIHPTIYTIYTS DKGLISRIYNEFKQIVTRTTCVF LHPHPKAKTTSYGDQLLGGN
21428	51796	C	21556	10	339	
21429	51797	B	21557	97	1458	
21430	51798	A	21558	1	387	
21431	51799	A	21559	3	604	GSVIAYYWSEFSIPQHLVEEAE RVMAEERVFMPPRARSLKSFV VTSVVAFRESEGQGWAWDWPP FHGVGLGPGPLQGTGTPRAQCP REKTTCPGTSL*IIRKQE*GNG LYQEMLYSPSYSSATDSKTVQR TQDNCSFGLHARGVELMRFTT PGFPDSPYPAHARCQWALRGD ADSVLSLTFRSFDLASCDEARS DLV

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21432	51800	A	21560	1000	2084	FRGTPVQRGGGWADLPGRCE LGRRLRSEEQARRVHKAPS/DF GTG/LKENTGKVNGLLEEGVEFL PVNNVKKVEKHGPGRWVLA AVLIGLLLVLGIGFLVWHLQY RDVRVQKVFNQYMRITNENFV DAYENSNSTEFVSLASKVKDAL LYSGVPFLGPYHKESAVTAFM WWREGSVGCTPDWLGVGSG YSVWGTKREMVLEVLDRWAK EGPRCVLLEGSVIAYYWSEFSIP QHLVEEAERVMAEERVVMLPP RARSLKSFVVTSVVAFPTDSKT VQRTQDNCSFGLHARGVELM RFTTPGFPDSPYPAHARCQWAL RGDADSVLSLTFRSFDLASCDE RGSDLVTYNTLSPMEPHALV
21433	51801	A	21561	3	2820	TGALILQKGEIRVINQTTCE PQQITPRMMCVGFLSGGVDSC QVPPGQEGGRQFPLKETNNRK GRLPKRLRPHTWCCYSLECSSY SLRCTEDTWTEQKVNGLEEG VEFLPVNNVKKVEKHGPGRWV VLA AVLIGLLLVLGIGFLVWH LQYRDVRVQKVFNQYMRITNE NFVDAYENSNSTEFVSLASKVK DALKLLYSGVPFLGPYHKESAV TAFSEGSVIAYYWSEFSIPQHLV EEAERVMAEERVVMLP
21434	51802	A	21562	111	465	
21435	51803	A	21563	2	197	
21436	51804	A	21564	359	405	EMQSRED*RK*YL*RIVNCVPL RERLGYVCGGLGERSKEGTLWI YQGLQKSQDTGRV
21437	51805	A	21565	208	287	IVSRSEKGVWVMYVEGWEREAR REHYGYIKGYKNHRIHMMQSS KALV*LEDLRKHI*IFRCVFSNP QVILML
21438	51806	C	21566	141	305	
21439	51807	A	21567	170	973	RMAACRALKAVLVDLSTGLHI EDAAVPGAQEAALKRLRGASVII RFVTNTTKESKQDLF\KRLRKL GFDISEDEIFTSL\TAARSL*R KQVTPMLLVD*SGHYLIFKGIQ TSDPNAVVMGIGTRTFSLSKF WNQAFRLLLGWSTSDSNSQSQ GFQEFKMGLALGPWTIL*LL*K YATDTKATVVGKPEKTFFLGS AGHWLLNLEEA VMIG\DDCRG\ DVGGAQDVGM LGILVKTKYR ASDEEKINPPPYLTCESPHADV

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21440	51808	A	21568	42	211	
21441	51809	A	21569	92	366	AGSEMRPGLTWACSLARLLLSP SFIKHWFLSCLLSCSRSGGYA QWCPPHQSAASAAGHCQTPAHA QAYLSSPPQMDHSSVRSLEAC QTY*SASAAGHCQTPAHAQAY LSSPPQMDHSSVRSLEACQTY
21442	51810	A	21570	1	834	
21443	51811	A	21571	3	835	
21444	51812	A	21572	1	1649	MPIVLVDWSDIREQKRLMVLR ASVALHGRSVTLYEKAFPLSEQ CSKKAHDQFLADLASILPSNTT PLIVSDAGFKVPWYKSVEKLG WYWLSRVRGKVQYADLGAEN WKPISNLHDMSSSHSKTLGYKR LTKSNPISCQILLYKSRSKGRKN QRSTRTHCHHPSPKIYSASAKEP WVLATNLPVEIRTPKQLVNIYS KRMQIEETFRDLKSPAYGLGLR HSRTSSSERFDIMLLIALMLQLT CWLAGVHAQKQGWDKHFQAN TVRNRNGSLLTNWPSVPPTIKE EENSEEELAAATTSKEQEPIGTD LDAVRTPEPLEEFPKREDQEGS PPETSLPYKWVVEAANLLIPAV GSSLSEALDIESDPDAWCDLS KFDLPEEPSAEDSINNSLVQLQA SHQQQVLPQRPSA\LVPSVTEY RLDGHTISDLSSSRG\ELIPISPS TEVGSGSIGTPPSVLKRQRKRR VALSPVTENSTSLFLDSCNSLT PKSTPVKTLRFS\PSQFLNFWN KQDTLELESPLTSTPVC SQKV VVTTP LHRDKT PLHQKHAA

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21445	51813	A	21573	59	2384	PRPGSRSGLCRRAGERGAVRAG GMSRRTRCEDLDELHYQDTDS DVPEQRDSKCKVKWTHEEDEQ LRALVRQFGQQDWKFLASHFP NRTDQQCQYRWLRVLNPDLVK GPWTKEEDQKVIELVKKYGTK QWTLIAKHLKGRLGKQCRERW HNHLNPEVKNKSCWTEEDRIIC EAHKVLGNRWAEIAKMLPGRT DNAGKNHWNFTIQK/RKGDGTG GFLREYKD*KPPVYLPL\ELEDK DGLQSAQPTGQRSLLTNWPSV PPTIKEEN\SEEELAAATTSKE QEPIGTDLDAVR\TP\EPLEEFPK REDQEGSPPETD/SLPYKWVVE AVNLLIPAVVS\SLYEALDLIGS\ DPDAWCDLSRFDLPEEPSIEDSI NNSLVQLQAS\HQQQILPPRQP SA\LVPSVTEYRLDGHTISDLR SSRGELIPISPSTEVGG\SGIGTPP SVLKRQRKRRVALSPVTENSTS LSFLDSCNSLTPKSTPVKTL PFS PSQFLNFWNK\QDTLELESPLA DYPPQVCSQKVVTTP LHR\DK TPLHQKHA\AFVTPDQKYSMD NTPHT\TPFKNALEKYGPLKPL PQTPHL\EEDLKEVLRSEAGIELI IEDDIRPEKQKRKPGLRRSPIKK VRKSLALDIVDEDVKLMMSTL PKSLSCRTTAPSN\SSTLTLSGIK EDNSL\LNQGLLAGPSPRKAAC VPEGPESHFHGQLAPYVPVPGK
21446	51814	A	21574	190	889	SLPRRLESPGRLAMAARGVIAP VGES/LCRYAEVPCSPSAKRPA DVDQQRLVRSLIAVGQGVAAAL AFAG\RYAL\RIWKPLE\QVITET AKGRFQTPRFSSY**GG/FLNII* LRREA\GLILGVSPSAGKAKIRT \AHR\RVMILESPQIKGGSPYVA AKINEAKD\LLETTTKRLMLKD HTEGKKNEGTSKKKKSPAKYS KTWSFLIFYMGFDHSLIFRPLSC ITNKMLIVLLFIIF

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21447	51815	A	21575	2	652	EGYIC/RHFTGSSALLTRTHITY GVIANVAVVRINSPNS\RMLAA CKTLQEVTLQSQEAQRIVEKLE KSTKPIVAAINGSCLEGGLEVAI SCQYRIATKDRKTVLGTPEVLL GALPGAGGTQRLPKMVGVPAAL LDMMLTGRSIRADRAKKMGLV DQLVEPLGPGPKPPEERTIEYLE EVAITFAKGLADKKISPKRDKG LVEKLTAYAMTIPFVRQQVY
21448	51816	C	21576	98	316	
21449	51817	A	21577	35	247	
21450	51818	A	21578	1	2391	LQLKMVACRAIGILSRFSAFRIL RSRGYICRNFTGSSALLTRTHIN YGVKGDVAADRINSPNSK\VNT LSKELHSEFSEVMNEIWASDQI RSAVLISKPG\CFIAG\ADITML AACK\TLQ\EVTQLSQEAQR\IV EKP*KSPQSLIVGCPSNGSCLGR RTLRLPISSPQYRIATK\DSKTVI *VPPEVFLGGPLPGRQGGHTK GCPKMGGVCLPAFGHECLTGR SIR\ADRAK\KMGLVD\QLVGTP GTQGLKPPEERTIEYLEEVA\ITF AKGLADKKISPKRDKG\LVEKL TA\YAMTIPFVRQQVYKKVEEK VRKQTKGLYPAPLKIIDVVKTG IEQGS DAGYLCESQKFGELVMT KESKALMGLYHGQVLCCKKNKF GAPQKDVKHLAILGAGLMGAG IAQVSVDKGLKTLKDATAL DRGQQQVFKGLNDKVKKKAL TSF\ERDSIFSNTLGQLDYQGF* KRPDMGELKAVFEDP*SLSHR VLKGVGSR*FPDHWYSLPSNT SALPISEIAAVQQKT*EG*LGMH YF\SPVDKMQLL\EITTEKTSKD TSASAVA\VLKQKG\VIIV\VK DG\PGLLVTYQGVFAPMMS\EVI RILQEGS\VDPKKLGFPTTSFG FPVGAATL\DEVGCGMLAK HVAEDLGKVFG\ERFGGNGPE L\LTQMVS KGFLG\RKSGEGLLT SSGRVVKRKILNSTMD\SI*ASL
21451	51819	A	21579	119	387	VEDSKEIFSSA*DYLSTHSHKHP ASHESYHVNPNCNPVAPTSGA HSIV*KWPSWLGTVAHSCNPSN FGRPRRADCLSSRSSRPAWPTR
21452	51820	B	21580	73	3177	

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21453	51821	A	21581	1399	5140	SGEPERALRGAAMRPSGTAGA ALLALLAALCPASRALEKKVC QGTSNKLTQLGTFEADHFPQPS QRMF\NNCEVV\LGNLEITLCER NYDLSFLKTI\QEVAGYVLIALN TVERIPLLENLQIIRGNMYEENS YALAV\LFNYDANKTGLKELPMR NLQEILHGAVRFSNNPALCNVE SIQWRDIVSSDFLSNMSMDFQN HLGSCQKCDPSCPNGS\CWGAG EENCQKLTKIICAQQCSGRCRG KSPSDCCHNQ
21454	51822	B	21582	82	305	
21455	51823	A	21583	122	219	YAKRIYDVYYVHTAYTCTFHA *KIRGMTQ*NW
21456	51824	A	21584	404	1228	GLAAFLARARGRRRKELPGSPR PLPQLPAGGPSRWAMRPSQR RPPTLPMAASPAHWPRESLVLY HWTQSFSSQKVRLVIAEKGLVC EERDVSLPQSEHN/EMPWFMRL NLGEEVPV\IIHRDNIIQ/CTMDQ IHLTMWERTFHRERHVGALMP EVGSRAA\PRVLQYRELLDALP MDAYTHGCILHPELTTDSMIPK YATAEIRRHLANATTDLMKLD HEEEPQLSEPYLSKQKKLMAKI L\EHDDVSYLKKILGELAMVLD QIEGGAGRKRKLENE
21457	51825	A	21585	3	1194	KNLSVKLSENGTLKNCVVADS ETDIDVYMYTRVYVYIPRIENS WNDTIKLVGTATISAVGGDIDA QGEWAFPLLGIPSLSPGPEWKV RVVIPDKGLVCEERDVSLPQSE PKEPWFMRLNLGEEVPV\IIHRD NIISDYDQIIDYVERTFTGEHV V ALMPEVGS LQHARVLQYRELL DALPMDAYTHGCILHPELTTDS MIPKYATAEIR/SDI*PNATTDL MKLDHEEEPQLSEPYLSKQKKL MAKILEHDDVSYLKKILGELA MVLDQIEAELEKRKLENEGQK CELWLCGCAFTLADV\SLGATL HRLKFLGLSKKYWEDGSRP\NL QSFFERVQRRFAFRKVLGDIHT TLLSAVIPNAFRLV\KRKPPSFFR ASFLMGSLG\GMGYFALHGTSR

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21458	51826	A	21586	1	929	MDPSIYFLPSKREGHLQAYIRDS VPEDPLILIFFSASSDQRPWLKA PHLPALRGFRGGGAGGGAQSR TTEDYVAWAKGNSPTSPSPRSR GGCSAKLSGPRRPPRRPGRLFN MAASANSVSRAWRTESPEGLE SLHSTLSAISVSRPEGGAELSD TADTMGFGDLKSPAGLQV\PTI TWRTRATSRGMCHHKQMWQY LKPCPAHRLPTCVMPIV/GYNH IKSYEKEKASLPGVKKALGKYG PADVEDTTGSGATDSKDDDDID LFGSDDEEESEEAKRLRE/DTSC TI*IKESQKTCTCCQVFHLTRCE
21459	51827	A	21587	1	2405	MALRVVRSVRAVLCSLHVACE KVGMPQIPRCYHERLSVAGNC RMCLVEIEKAPKDQSMFMFGND RSRFLEGKRAVEDKNIGPLVKT IMTRCIQCTRCIRFASEIAGVDD LGTTRGRNDMQVGTIEKMF SELSGNIIDICPVGALTSKPYAFT ARPWETRKTESIDVMDAVGSNI VVSTRTGEVMRILPRMHEDINE EWISDKTRFAYDGLKRQRLTEP MVRNEKGLLTYTSWEDALSRV AGMPPALALQSAEIAASARPPP RLGSEEPLCLAAHRLGCEEPLC LAASLESEERLCPAAIPPGNLRY VFISSAKTDKYSKLAPVEWVTV EKVPENVEVTLELGNRQSRDR VSRI PGNAIWIWFTGFKWKKTV TTLWFLNLAIADFI LLFLPLYIS YVAMNFHWPFGIWLCKANSFT AQLNMFASVFFLT/GDQPGPLY PLDPSCLISSASNPQELSDCHYI HLAFGFSNWRSCPVLPGHCGV Q*SYSL*QFSEA*S*PHFDQAP CSDLGEIYHWLSLPFANNEYLL LVSHLQGEEAKHPDLQ*AFLDN SGCGCGLCGLLDLSLPV*HLGA HHSPQ*LFPPCDAGWNPPLHWF GIPQ*LLEPHPLCPN**EVPSSLP VLSC*DTQVHTVGSQFLWQVL KEAKKPMVVLGSSALQRNDGA AIIAAVSSIAQKIRMTSGVTGD WKVMNILHRIASQVAALDLGY

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21460	51828	A	21588	1	2065	MLRIPVRKALVGLSKSPKGCVR TTATAASNLI\RVFVDGQSLM\V EPGTTVLQACE\RIGMQIPRFCY HERLSVAGNCRMCLVEIEKAPK DQSMFMFGNDRSRFLEGKRAVE DKNIGPLVKTIMTRCIQCTRCIR FASEIAGVDDLGTTRGRNDMQ VGTYIEKMFMSSELSGNIIDICPV GALTSKPYAFTARPWETRKTES IDVMDAVGSNIVVSTRTGEVM RILPRMHEDINEEWISDKTRFA YDGLKRQRLTEPMVRNEKGLL TYTSWEDALSRVAGMLQSFQG KDVAIAAGGLVDAEALVALKD LLNRVDSDTLCTEEVFP\TAGA GTDLRSNYLLNTTIAGV\EEAD VVLLVG\TNPRF\EAPLF*C*EFR KSW\LHND\LKVALIRAVPVDL\ TYTYDHLG\DSPKILQ\DIASGK/ SHPFSQVLKEAKKPMVV\LGSS ALQRNDGAAILAAVSSIAQKI\R MTSGVTGDWKVMNILHRIASQ VAVL\DLGYKPGVEAIRKNPPK VLFLLGADGGCITRQDLPKDCF IIY\QGH\HGDVGAPIADVILPGA AYTEKSATYV\NTEGRAQQTKV AVTPPGLAREDWKIIRALSEIAG MTLPYDTLDQVRNRLEEVS\PNL VRYDDIEGANYFQQANELSKL VNQQLLADPLVPPQLTIKDFYM TGEVTEINEALAENPGLVNKSR YEDGWLIKMTLSNPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21461	51829	A	21589	56	2352	ATRPPRGSSWCRQFSRTASAAP GRSNMLRIPVRRALVGLSKSPK GCVRTTATAASNLIIEVFVDGQS VMVEPGTTVLQACEKVGMQIP RFCYHERLSVAGNCRMCLVEIE KAPKVVAACAMPVMMKGWNIL TNSEKSKKAREGVMEFLLANH PLDCPICDQGGECDLQDQSM FGNDRSRFLEGKRAVEDKNIGP LVKTIMTRCIQCTRCIRFASEIA GVDDLGTGRGNDMQVGTYIE KMFMSELSGNIIDICPVGAL/TS KPYAFTARPWETRKTESIDVMD AVGSNIVVSTRTGEVMRILPRM HEDINEEWISDKTRFAYDGLKR QRLTEPMVRNEKGLLTYTSWE DALSRVAGMLQSFQGDVAAL AGGLVDAEALVALKDLLNRVD SDTLCTEEVPFTAGAGTDLRSN YLLNTTIAGVEEADVLLVGTN PRFEAPLFNAWIRKSWLHNDLK VALIGSPVDLTYTYDHLGDSPK ILQDIASGSHPFQVLKEAKKP MVVLGSSALQRNDGAAILAAV SSIAQKIRMTSGVTGDWKVMNI LHRIASQVAALDLGYKPGVEAI RKNPPKVLFLGADGGCITRQ/ DLPKDCFIYQGHGVDVGAPIA DVILPGAAYTN/KSATYVNTEG *ASASIMLAVTT/PGLSREDW/KI IRALSEIAGMT/LFPYDTL/DIQV RNQIGKKSSPNL/VRYDDIEG/A
21462	51830	A	21590	246	761	MRLQGAIFVLLPHLGPIVWLF TRDHMSGWCEGPRMLSW/CPF LQSLICLLQTALVSVVG*VLVS HTWPWYPMGWEQVLYI*ITYA VQLTISWTVLVFFTVHNPGLV RHTVLSSRSNVGEGETTWLQK HILAAALLLPYLAWLTVTSALT YHLWRDSLCPVHQPPTEKSD
21463	51831	A	21591	1	1497	
21464	51832	A	21592	1	1731	

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21465	51833	A	21593	1	6626	PRSLCFSLWAEAAVLADGGLR RRRRLLRGTMSASFVPNGASLE DCHCNLFCLADLTGIKW*KYV WGGPTSAPILFPVTEHPILSSSS RCLTAHVLGVRRRDQRPERR\A L*IFWWGEDP\VLLTLFTMTYQ KKKMECGRMDMPMNAVLCFS KAVHNLLERCLMNRNFVRIGK WFKPYEKDEKPINKSEHLSCS FTFFLHGDSNVCTSVEINQHQP VYLLSEEHITLAQQSNSPFQVIL CPFGLNGTLTGQAFK
21466	51834	A	21594	1263	1906	AVRGMVRNARAVLKTGGTFLS PALEPLVAGGSGG/EFSQLGAEE RKAIAIRF/AIDHVDRRVPVLIGT GG/TNARETIELSQAHAQQAGRT ASTIDSV AHLRSMIHTVK/GAHP HFTVLCGYDDHLF/NTLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQTASIPDQLI HPYESRLFKCQHVLTRGITSF*L LCPPGSLRRQGISTYHSLHNN
21467	51835	B	21595	113	484	
21468	51836	A	21596	300	780	KSGTNETIRRKARGGKIK\MDD LRG\PRCQ*EPWKRLMTIMPS CLHLWAQNTTVSILSFVDKDLL EPGCSVLLNHKVHAVIGVLM DTDPLVTVMKVEKAPQETYAD IGGLDNQIQEIKESVELPLTHPE YYEEMGIKPPKGVHPFGPTWPR VKPFCPRQ
21469	51837	A	21597	2	840	AIEHCQSGDNPESTRRGFLLQQW LGRNPALVPHPGRTGHSQPPVT FHRHPSDCQRSPAGRFKGGPSH RGQPPPFHKSPMTTASHLARC ARTYHQ\DSEAAINR\QINLELY ASYVYLSMSYYFDRD\DVALK NFAKYFLHQSHEER\AHC*ENL MKACRTNEGWPNLFSQDIKET KTCDD\WESGLNA\MEVCALHFE KKC*IKSLLEL\HKL\ATDKN*PP ICVDFI*DTFTLNEQ/V*KAIKRI WGDH/V*PKLWRKMGSAPNLG FGEYLF*QSTPWGDSDNES
21470	51838	A	21598	3	390	

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21471	51839	A	21599	1	483	FQLEVTPQNITLNPFGGPPVFS WRDQAVLRQDGVVVTINKKR NLVVSVDGDTFEVVLHRVWK GSSVHQDFLG FYVLDSHRMSA RTHGLLGQFFHPIGFEVSDIHPG SDPTKPDATMVG\LQKDYSKDP WHGAEVSCWFIHNNAGLIDG AYTDYIVPDIF
21472	51840	A	21600	1	1521	
21473	51841	A	21601	1	837	
21474	51842	A	21602	3	310	EVRLNLSSQALRMWLDYGFVT PLTSMISIRGMADQDGLKPTIDK PSEDSPPLEMLGPRRTFVLSALQ PSPTHSSSNTQRLPDRVTGVD* VVT*PYVLCWNLC
21475	51843	A	21603	62	462	MPLPLPSAFVLSALQSPTHSSS NTQRLPDRVTGGFSVNGQLIGN KARSPGQ\HDGTYFGRLGIANP ATDFQLEVTPQNITLNPFGGPP VFSWRDQAVLRQDGVVVTIN KKRNLVVSVDGDTFEVVLHR VWK
21476	51844	A	21604	37	2883	SMDGAMGPRGLLLCMYLVSL ILQAMPALGSATGRSKSSEKQ AVDTAVDGVFIRSLKVNCKVTS RFAHYVVTSSQVNTANEAREV AFDLEIPKTA FISDFAVTADGNA FIGDIKDKVTAWKQYRKAAS* EKA\GLVRASGRTEQFTIHLT VNPQSKVTFQLTYEMLKRNH MQYEIVIKVKPKQLVHHFEIDV DIFEPQGISKLDAQASFLPKELA AQTIKKSFSGKKT SNGSHSRF QGHVLFRTVSQQQ
21477	51845	A	21605	1	1008	
21478	51846	A	21606	1	435	
21479	51847	A	21607	1	676	IRHQGAAAEQEGDAETPGSVERR GRRAGAEDGMSQAPGAQPSPP TVYHERQRLELCAVHALNNVL QPAA\FSQEADEICKRLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWWDRRRPLVPS WPCPKGLG*ILNLPSPVSLGLL SLPLRRRHLRWPCARL/VTVS YNLDSK\LRAPGPGGLRTE/LR GLSLAAALAQGLCEVLLVVT EVEEKGSWLRTD
21480	51848	A	21608	89	316	ELLSPLL VAPGPSDLT VTGLKSF SSPSLCSLNTLLAGTSRLMVA*L YESLGQGEDLGLLTPGPEFLSIS SYCNFM

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21481	51849	B	21609	1	1920	
21482	51850	A	21610	1	1727	LPRVLGHSGHRGGLSSRRSQGL VSRFRLRALCGAGSDMWRLPG LLGRALP\RTLGP\SLWRVTPKS SSPDGPQTTSSTLLVPVNLDR SGPHGPGTSGGPRSHGWKDAF QWMSSRVSPNTLW\DAISWGTL AVLALQLGR\HIHFQAFLAAGP\ KRVE\HCS\WHSPL\DRFFSSP\ WHPCSSLRQHILPSPDGPAPRHT GLK/ENPRLGKEVEASAQPRNFS HNSLRGARP\QDPSEEG\PGDFG FLHASSIESEAKPAQPQTGEK EQDKSKTSLSEEA\VTSIQQLFQL SVSIAFNFLGNQMDPAPRQEGT ENMKSGDHTAAFSYFQKAAAR GYSKAQYNAGLCHEHGRGTPR DISK/SV*KAGLYYQLAASQGH SLAQYRYARCLLRDPASSWNPE RQRAVSLLKQAADSGLREAQA FLGVLF\TKEPY\LDQRAVKYL WLAANNQDSQSR\YHLGICYEK GLGVQRNLGEALRCYQQSAAL GNEAAQERLRALFSMGA\ASPG APTNLTVTGLKSFSSPSLCSLNT LLAGTSR\LP\ASSTGNLGLLC RSGHLGASLEASSRAIPHPYP\ LEKN\VVRLGFG
21483	51851	A	21611	1104	1680	LATPDVRYCYLSTYTSLPNPAR RFFLFSLCCKFSSH\KTATVKK YNKSEYPWDLVKAHLQGAFTS NITFDISELQNKILD\NRHTQEF QPSLEDWTEFQEGLES\NPWTY LKYHSN\LYVVLGVMLFCLCLL FIVCKIGWTANRRMRAAQPGL TFFQLIHKQGD\MQGAEGPWDV TNSAFHWRLYDQTANCLS
21484	51852	A	21612	364	824	LCIILFKQLSTWRTGCAQPTKR GYTELQTEGPMLKSMFLWLGE QVQILQL\HSNCIVILTTLV/FCV TNLE*FIVCKIGWTANQKMGA AKPGLTFFLLICK\QKGD*GA KGPWDVINS\AFH*RM
21485	51853	C	21613	196	504	
21486	51854	A	21614	3	142	

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21487	51855	A	21615	1178	2285	IVWLMTTGGQCRY*LSALIKL* DR/WFQRLCIHVIQRLRPVHAH LYLQPGMEDGNSFRQMFRSTR SLHIPTRDLPLSPDTTVVLHQVY NVLLGLLSRAKLYVDAAVHGT TKLVPHYFSFMTYCLISKTEKLM FSTYFMDLWNLFQPKLSEPAIA TNHNKQALLSFWYNVCADCPE NIRLIVQNPVVTKNIAFNILAD HDDQDVVLFNRGMLPAYYGIL RLCCEQSPAFTRLASHQNIQW AFKNLTPHASQYPGAVEELFNL MQLFIAQRPMREEELEDIKQF KKTITISCYLRCLDGRSCWTTLIS AFRILLESDEDRLLVVFNRGLIL MTEGKD\TFMIVCC*TTSFLIIS SIYYAELQSTVKNLLKH
21488	51856	A	21616	1	436	
21489	51857	A	21617	369	508	
21490	51858	A	21618	2150	3120	DLRALALLSVHTPKQLNPALI PTLQELLSKCRCTCLQQRNSLQE QEAKERKTKALALWTITFRV GGGSNTLGVTGLRVVCSAEPK YKC*KQN*LPTSPNVILMTFRE VLLACVFTDDEGATPIKRRRV SSDEHTVDSCISDMKTETREV LTPTSTSDNETRDSSIIDPGTEQ DLPSPENSSVKEYRMEVPSSFSE DMSNIRSQAEEQSNNGRYDD CKEFKDLHCCKDSTLAESESE FPSTSISAVLSDLADLRSCDGQA LPSQDPEVALSLSCGHSRGLFS HMQQHDILDTLCRTIESTIHVVT RISGKGNQAAS
21491	51859	A	21619	2	4049	EEENGREYKFDVSSELLEWIWH DNMQFLQDKNIFEHTYFGFMW QLCSCIPSTLPDPKAVSLMTAK LSTSFVLETFIHSKEKPTMLQWI ELLTKQFNNSQAACEWFLDRM ADDDWWPMQILIK\CPNQIVRQ MFQRLCIHVIQRLRPVHAHLYL QPGMEDGSDDMDTSVEDIGGR SCVTRFVRTLLLIMEHGVKPHS KHLTEYFAFLYEFAKMGEESQ FLLSLQAISTMVHFYMGTKGPE NPQVEVLSEEEGEEE
21492	51860	A	21620	58	219	

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21493	51861	A	21621	195	1187	RVPRTWLLPSFCASRSRENEGL SEFGASQTVTPSPASSVQAW MEPEFLYDLLQLPKGVEPPAEE ELSKGVCKKYLPTSRKDPKFE ELQKVQQEWINATLLPEHIVVR SLEEDMFDGLILHHLFRKWAAL KLEAEDIALTATSQKHKLTVVL EAVNRSVCSWRSRPSGA/WEST WNKDLLSTLHLLVALAKRFQP DLSLF/D/HTNVQVEVITIEVAA NFVNQKLDRLGLSVQNLDQTQV GTGVILLLLIGQLEGFFLHKEF YLTPNSPAEMVSFVTLAELL/I GRGPAQLPC/LALKVSAT/MDA KSTLRVLYGLFCKHTQKAHRD RTPHGAPN
21494	51862	A	21622	96	1350	AAGLLPPGLVPEDPRRTRNLLP FGIQGPPFALSRLPFCVESGWA WEAMEPEFLYDLLQLPKGVEPP AEEELSKGGKKKYLPTSRKDP KFEELQKPAVLMWINATLLP EHIVRSLEEDMFDGLILHHLF QRLAALKLEAEDIALTATNQK HKLHSCWWRP*TGVCWSRSGR PSGA/WESIFNKDLLSTLHLL LAKRFQPDLSLPTNVQVEVITIE STKSGLKSEKLEEQLTEYSTDK DEPPKDVDFELFKLAPEKILNA VKEAIVNFVNQKLDRLGLSVQ NLDQTQFADGVILLLLIGQLEGFF LHLKEFYLTTPNSPAEMLHNVTL ALELL/IGRGPAQLPC/LALK/TI VNKDAKSTLRVLYGLFCKHTH KAHRDRTPPWSPELTLTASKAQ SLPVSPAGGPEAAGCPPTVPLFP
21495	51863	A	21623	1	87	
21496	51864	A	21624	45	277	
21497	51865	A	21625	171	511	GKFRYSPALHSWATRLRTSTAA GHCCMNSSQNKLSSKSWAMTR HALNVKRFTIFQSHQCSLSKKV NLSLFQQGAERLPSQELTHLLL QEVRC*RDFFPEEATWTGLPV LPSQ
21498	51866	A	21626	276	387	
21499	51867	A	21627	1	218	

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21500	51868	A	21628	139	9009	ESSEDVSGGLPFLVDLGFRSVC VSLFHVKNPVQWDQKLPKKKK PVRSYCGSKLLQREVIQPDVME EMVVSCVIKHLNLVDALQSLIN FQYQEEHAAEYDLLCKIMGETF KKLNAMERQLQNKMKELLELLC SMKEVSFDGNDLENMVLSLRE KFLQEVNSLIQKPSHPLAKTKT LVKSLMNRAELLLHVTIAAQSG LTRSISGTPAETPACKSASETKV ISHAVRQPVFLRSMSPSDLEMI GNEDLEFTRANQRR
21501	51869	A	21629	1697	2056	
21502	51870	A	21630	237	1545	KPENKKSRTGRNRTKSTPGYRA /RPAAATARISARSTK*WKNSL AGRWARHICWTLWALPRITLR /HVMAAGFPQRMQKDYRDAID ALCDANRFGQKKRLGFWRYKE DSKGVGLCSYLLIGFYTDPKN GAAAMKAFVTVTRVGDVFLAFA LFILYNELGTLNFREMVELAPA HFADGNNMLMWATLMLLGA VGKSAQLPLQTLADAMAGPT PVSALIHAATMVTAGVYLIART HGLFLMTPEVLHLVGIVGAVTL LLAGFAALVQTDIKRVLAYST MSQIWLRCSSRLACRHGCGGSL ECLQHEGIPYSRMGRPHTTTAL RRFTSEFGMGSACTLTGYFFMY KQAVILLMLFTASVSAACTLPI AIDHGTGPAELLTVALRYNLS SYDAAYLELALRLEIPIAKGSPN FAFRRAATGNEGIMHFLRNK GILWI
21503	51871	B	21631	1	1440	
21504	51872	A	21632	525	716	PKTPAGPVEPMHQVPSSKRVPT RDKRTRGDSTRHSGQSKPTKRY NHAYEI*PRIKWFI PDAGC
21505	51873	A	21633	8	136	
21506	51874	A	21634	1476	1611	GCDPAPGLPAPPHT/QP/DH*NQ RQIGIG*FLTGTVPATHLRQLA AA
21507	51875	A	21635	461	827	AALQMRDTS DPADCGEQSVCG YSEPVPYACFHRIQDLHDTET AACFSHAGSGRTHV*SQSEHAA GSVLWSYRYRC*GTAGYTDR FSQQRCHVRRGISPRCWPEYQS RSWCRLFPSPESAG

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21508	51876	A	21636	1	3735	MAEASVFQTVDPWRPGFATIPD FLKERYDKTTRIHDFCFLIATGV CFLPIVLYSGALALNSLFHVGES LQISHGAAIWLLVILLGLAGILY AVIGGLRAMAVADSINGIGLVI GGLMVPVFGLIAMGKGSFMQG IEQLTTVHAEKLSISGGPTDPLP IGAAFTGLILVNTFYWCTNQGI VQRTLASKSLAEGQKGALLTA VLKMLDPLGLKPDLLAYNTAL RALIPQRLIAFDDAVRSTLKEEE KLVNSSDWGY
21509	51877	A	21637	840	1064	WSVENYHRRGYGGHIPLPAASP AVAAQWCDAGR*VPPAARRW HRHQVYLTYLITLDRGLSRARF CIPSAHCSAY
21510	51878	A	21638	979	1409	RLVVDIFHDNRHAFPRRLVSDA AAHNACTQHRGLFRGFNVFGE FLRFAFYILIVKENADQCAGFV GMRQRDKTFVFQV*GFFTTKT GRSFNGFYCGDGGRI MF/LPLFV RPSL*RW*SSWWLQSCSVLVVP ASADVLLSSRGRR
21511	51879	A	21639	903	1397	LPTLPMVMCCTTPTSSRKHWM *NPSTLT/HAWVPYTNFSPIYEG KCGMSGARVEGKVIYETQSTH KLLAAFSQASMIHVKGDVNEE TFNEAYMMHTAASPHYGIVAS TETAAMMKGNAGKRLINGSI ERAIKFRKEIKRLRTESDGWFF DNAAGYIDTITLGGPS
21512	51880	B	21640	1	5305	
21513	51881	A	21641	129	723	LITARGQVADRNLRLDLLAPWV PDAPSRALPEMTLDSRVAAAV DLFVARIGHQADGRRYIPQAIA QGVAIIAEAKDEATDGEIREM HGVPDIYLSQLNELLSALAGRC YHEPSDNLRLVGVGTNGKTT TTQLLAQWSQLLGEISAVMGT VGNGLLGKKKEKAAIQYNTLC KSCTLTHPKPHNESDH/IRCRC*

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21514	51882	A	21642	1	2230	MMRTSGGTRDNESSDDDERER ENRLSDEKSNEYANLVGGERY EPDEENPMLGFRGAGRYVSDSF LRLCSSLEIVKARETVALIQGLK H\DLLADDTALRALIPQRADRF MNAVRSTLKEEEKLVNSSDWG Y\DAQAFARWRPEYGYFAKQA GFTVKTSASLAALWQVVNQIG GKERYFFGNILWQTRALMDRAI GHKLAKGRPEREYLQTGDAVD SWKVIVVEPEKQLTLLFGMKAP GLGRLCFSLEDKGDYRTIDVRA FWHPHGNRAEREKPRFQPYSTR KFIGQNMILLPMSIMPPVFRRVI CPLGVARLGKFRDPVYLVCFVT RQIFRYYTSGDEFLQINTTGGED IDDIDDIKLFVYEESYGISKESH WREAINAKAMGAMTLNWQEK RWQRFFNSEEPGNIEPVYMLEK VENQNHAKWEVHNFTMGYQR QVTEDTYEYLLLNVVGVVPVPD NIHPMTKDEAGVWSWRTPILK GNLYEYFFNVDGVRSDTGTA MTNPQRQVNSSMILVPGSYLDT RSVAHGDLIAITYHSNALQSER QMYVWTPPGYTGMGEPLPVLY FYHGFQDGRSAIDQGRIPQIM DNLLAEGKIKPMLVVPDTE AKGIIPEDFVPQERRKVFPYPLNA KAADRELMNDIIPLISKRFNVR KDADGRALAGLSQGGYQALVS GMNHLESFGWLATFSGVTTTT

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21515	51883	A	21643	1	1549	MDASGHHVRGFASGMGCCRV RRTMKRETGGGRLAGFRLVGT LGQHLGAHRSASKGHQILAAA RHVDRLAK\LQLA\NVSCHEVD LSWPDNLPALLQDIDTVYFLVH SMGEGGDFIAQE\RQVALNVRD ALREVPVKQLIFLSSLQAPPHEQ SDHLRARQATQ\EIRSEGNVP\V TELRAEIIVGAC\S\AAL\EVMRD MVYNLPVLTTPRWVRSRTTPIA LENFLHYLVALLDHPASEHRIF EA\AGPEVFSYQQQFEHFMVSV GKR\RWFDPSPPLPTRWISVWF LNVITSVPPTTARALI\QGLKHD LLADDTALRALIPQRLIAFDDA VRSTLKEEEKLVNSSDWGYDA QAFARWRPEYGYFAKQAGFTV KTSASLAALWQVVNQIGGKER YFFGNILWQTRALMDRAIGHK LAKGRPEREYLQTGDAVDSWK MIVVEPEQQRTL\LFGMQAPGL GRL/CCFSLEDKGDY\RTID\VRA FWHPHGMGP/L*F*WLLMIPAH LFIFRGMKQIARLAVPSTDLD
21516	51884	A	21644	201	363	SLRGSRTAASPCWAVPVHVP HGAGEPAHHPGHQP*LPPPHPH VLLPLQPVLA
21517	51885	A	21645	3	440	PFSLPFSGLTASLFMNTWLAIS SNCDGFIPASPACFCSFLMSSA L*RTKAM*IMC*FSGLSGSKGV YIR*ASHSL*NCAGLSSFP*MT SESLTFVAF*APLINPSKRASLS RFSLCISSLSCGSNWGSPGNW VLPYSWGF
21518	51886	A	21646	359	543	VVTPDSGSSH*KANSFCLSGAN LMLKKASFRSKQVNQLSSAGS NPSNMYGLGTGVGCKVTVA
21519	51887	A	21647	2	582	
21520	51888	A	21648	3	574	
21521	51889	A	21649	1	195	LCVFFVLVSFFLSPLDSQLAVV C*FDGTGIGMYLTSAVSPPPRN GVVASVMYAVVTPMLNLFICS
21522	51890	A	21650	2	457	
21523	51891	A	21651	21	545	PPCTSLRPLHAFSGKMTHLNRG TSLLDSQLHNLIALQMTCKFD VEIPNFFWEPSVTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGVGGYLGSDVSSSP RKRAVASVMYTVVTPMLNPF YSLRNRDMKSVLRRPHSSAV

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21524	51892	A	21652	899	1039	LWTSSLTAESSPMRAA*LRETSI VSAASRAFSAAALSSSALRAFSAC
21525	51893	A	21653	804	1390	QGTIILKVLRLRWTWIPSRASL RTGYCFCLTGWTPGLTSISTGA WLTANPGGLSSAHTLGHRLAR AGLISWPGSVKKSLSHSSSRGSIR VIMTPVPGNFSSKEPCSVKEIVA LSLLSKSLPNKGKGQSGMYKN* *ITLCPPIVQVWGKQKACFAET PMAPMMSIVFLDKGATEAVTT ECSALVSTRKSMSLPPTV
21526	51894	A	21654	84	730	HLSDSKSQVRYQPSADLSFLLG HYNPQSSRRVLSVLDSQLHNLI ALQVTCFKDVEIPNFFCDPSQLP HLACCDTFTNKIIMYFPAAIFGF LPISGTLFSYSRIVSSILRVSSSG GKYKAFSTCGSHLSVVC*VYGT GVGGYLSSDDVSSSPRKA AVAS VMYTVITSMLNPFIYSLNRNDIK GVL RQPHGSTVQFQYLLICSIPF VWVWKKGSKVK
21527	51895	A	21655	1049	1979	
21528	51896	A	21656	2244	2901	LRCLSLPFLEAWKRDMLLSVM A\YDRFVAICHPLYHSAIMNLCS VGFLVLLSFFFFLSLSDSQLHN LIALQMTCFKDVEIPNFFWEPS QLSHLACCDTFTINIIMYFPTAIF GFLPISGTLFSYYKIVSSILRVSS SGGKYKAFSTCGSHLSVVC*FY GRGVGGYLSSDVSSSPRKGAV AAVMYTVVTSMLNPFIYRLGN RDIKSVLRRPTEHCLISKK
21529	51897	A	21657	1	2850	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21530	51898	A	21658	1	1703	KKMALTSFLPAPTQLSQDQLE AEEKARSQRSRQPSLVSSRREPP PYGYARKAWIPRLLED*DRGA FPEIHVAQYP\LDMGRKKKMSN ALAIQVDSEGGIKYDAIARQGG SKDKVIYSKYTDLPKEVMNA\ DDP\DWQRP\DEEAIIITEKA\R VAL\EKSVSQKVA\AAMPVRAA *QIGPLLQYIPIHTISGKGVAIQ T SWS*TRRVIR\MVEMQ\KDPM\E PP\RFKINKKIPRGPPSPAPVM HSPSRKMTVKEQQEWKIPPCIS *LGKMAKGYTIPLADKRLAAD GEEGLQDSYTLNGKFSAKLAE ALYIADRKAREAVEMRAQVER KMAQKEKEKEHEEKLREMAQK ARERRAGIKTHVEKVYFSTVH TEDGEARERDEIRHRRKERQH DRNLSRAAPDKRSKLQRNENR DISEVIALGVPNPTSNEVQYD QRLFNQSKGMDSGFAGGEDEI YNVYDQ\ALIGGKYMAQSIYRP SKN\LDKDMYGDD\LEARIKTN RFVPDKGVFLVQTRRQREGP \VQFEEDPF\GLDKF\LEESPTAM GGS\KRPSG*PAAPREHGAWKA RKRRKE
21531	51899	A	21659	2	1588	CLRRALPGSIESAPTAPPPPSGE GSQAYISRLPATLIVLILERRQL LGVWRRARCCSLINLAHRRHC GMPTRESPCAILARRYEGRRSPS TVAQPPPPPPPIELAPSTSETPIQ ATRGAHPAQSS/VPPA/PARPPE RPPVPEQGPGTHPDPT/PGPT NAPQRPSAP\PNNTN*PTRHMH QLPDAA*TPYPAYGSDYL*AR* DATASHQASCTN/SPDAA*TPYP AYAKIERA*ENPVPSAIKIIGRSS SSGRQASPWGMA/SPHWRSWR MGPNGSGKRPRRAAERISCCRN AQGRTHSQKAYIQQQPQCCVN VHLQPPD/PTPAQ/PSQTLSPDS /PAPPLPAYPS/TQHPTAPPPTSSP MSS/RIVKPHPQHCGARPGQGK ERDETERKDAKERNRRTATPTT RHTDRLPRTAHGPPPP\PPPPPP PPPPPPRDSPPRRPRRREKPEQQ KEGGQTGRTOQKETARRGEER ETGRKKTRGAPPPRPAAARRPH ETAETKRRPPARQHRPPRRRPS DGTERTRHQLGFIMLGLLSWN

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21532	51900	A	21660	2	192	RVDICSTNYCWWLYPMTSGPSF SYV*GP*EEDVRE*MCGRDGL* YLSIGVVCGFICQHNRQAQ
21533	51901	A	21661	783	2119	GSEMPVTVMLTLGEPGHFMSS LGVCWCGVEDEAAPSQSIYIQ RETQVRTPMAGVSPKKAHPCE MCGPILGDILHVADHQGTHHK QKLHRCEAWVNILYDSGNFHR RQNEHIGEKPYRGSVEEALFAN RCKLHVSG\SHLSSVRV/EKDFL LRSGLLQQEATHTGKSNSKTEC VSLFHGGKSHYSCGGCMKHFS TKDILSQHERLLPTEEHFVWCE CGKSSSKYDSFSNHQGVHTREK PYTCGICGKLFSSKSHLLVHQRI HTGEKPYECEVCQKFFRHKYH LIAHQRVHTGERPYECSDCGKS FTHSSTFRVHKRVHTGQKPYEC SECGKSFAESSSLTKHRRVHTG EKPYGCECEKKFRQISSLRHH QRVH/T/NERAYECSESLIKYW RIHT*VRSCDCSKCGK/CFTQRS ALLGYWRVHTR\KSPYK*NKFG QFCSHTSVFLQDYS
21534	51902	A	21662	84	437	KMTSTQPVKFSLFASHVPCGQ SFPGRRAFAFAMPRRRIPSSDHL PEPGQSHQHVNQRWACRELI AAFLPSSYRL*LVETGGEIGQRN RASCHSPFPAGSSPGIFQTEIGKP CLLP
21535	51903	A	21663	69	446	
21536	51904	A	21664	880	1365	
21537	51905	A	21665	1705	2196	RQNQREGDDDDTEDQPPRPGTQ MTELFFLIQMLCFMANALRQL VHPL/MGNVHEYFADLKMPAC AVSAFLCAMHRSITSMFE*DNG PGPADADAR\LDMRIQVFMFCA NTLPARVLQRNKNPGQDHPET AERRAESQRIIEKGLKCIQGKGI VNSISMKEGVDAFIH
21538	51906	A	21666	1	1147	
21539	51907	A	21667	254	557	AADEIGGIAVETVTEDAHLLCG CTVVAIPPRICVSAGGGAGDRK SSVRFHQNLAQVHITRGV/VWT MTNSHIITCCATAFGTTTSPSPT ESTGVPCGRNRQH

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21540	51908	A	21668	557	1031	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGIAYTRRYSHDGATA EKY AHLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTERSW
21541	51909	A	21669	572	825	QARISTSFFRESLPSRHPVPRYR PLEAFWTPCTRGYYRFFFS PAR ENAEYRTLAKHWAKFLLVRASF PGASTLCCCKSPGRTISV
21542	51910	A	21670	303	899	EDNYSGSSLYCFDDVASVQMP GSNGNCRR*CAGKTSG/TWRNS LVRQWLLTAQKKTLLHAVSNL PKTWAQILFSKQVLRSPNLRH LIW*CAAVKL*LLVLYPAIRQSI SSKSI AKSLSRRYFR/LPIGDSM* NRW*RIFTIIGMYIGTAL*SDGAI VVCRLCENLPGSFHQHQRC AASLAGGSEPIAFSRAGRTPGP
21543	51911	A	21671	1	1320	
21544	51912	A	21672	99	761	IDNAPPDQTTVHAFAANSENHS PPQLPYETPDDADPTHQAFSRW RHRPQAYSADALLRERLPPTHR HRGQSPDSLTS LPYWRGRKY RAAPALT*TPPDTLFDSP*PAV PPPVAKELPVTAQRQVHNAMS ANSFVIFHPVKIRNNIVLQPAIAI QRRNGHGVTRCAAALHSRHGS LSVARHRVHLPVCRQADDKPA PAPLRPARYCLCPNQSAAVRYL R
21545	51913	A	21673	62	680	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGIAYTRRYSHDGATA EKY AHLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTGPVRRSGAASASSPAVFLSG TSPWSFARTIALVRGRSRKSTRT RLWHISAHC
21546	51914	A	21674	411	481	

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21547	51915	A	21675	402	915	RLASKLFTTVTPRGGVGELOAT TRNAAVAGIKRKRNSNRGRPAEE PELTADRGQGENEITEAATAAK ARRTMRPKTGNQNPDKHRTG LQICHTFNANGNRARCSAANA MAATISGLSSGLSGTGWQETIR PPLAAIF*SSCASNDIHLPKSFLA LPNGTAPLNLGPSIAS
21548	51916	A	21676	1416	1832	GSAPRQRHLAGRRPVTTTRPKHV SHHGPPQENSAHRLSHVDNESTC IVCGTLRLQHSARYFPPSLPETL FLAPVNHSV/EYNWQAAVPK*I Y*HQTFPGRDCQHLLFHFVRKF GVRESI/AQVVAVRAATSAWRY SRSSAITL
21549	51917	A	21677	97	300	
21550	51918	A	21678	756	1179	RRRLPSPYCRAAAGSSPSYECF AHQRSVASSRGHTGTRQFYRE HWFLRCIRRLSGTRLLAYHRCF QPHLACSGKRAVSASSTRSADV AAWYRV/CAKPFSSSS*VQEDL SYLRFSAS*P*TVIL*PACRKPCR KRRGQRRWR
21551	51919	A	21679	3	1279	
21552	51920	A	21680	1	2448	
21553	51921	A	21681	317	1985	PNTPLTSKLPLLTHPLTLLTPSA SGWQKTTKLSCVF/PETEKYAH ERLAHHVAQGANQYAPMTGV QALREAIAQKTERLYGYQPD DSDITVTAGATEALYAAITALV RNGDEVICFDPSYDSYAPAIALS GGIVKRMALQPPHFRVDWQEF AALLSERTRLVILNTPHNPSATV WQQADFAALWQAIAGHEIFVIS DEVYEHINFSQQGHASVLAHPQ LRERAVAVSSFGKTYHMTGW KVGYCVAPAPISAEIRKVHQYL TFSVNTPAQLALADMLRAEPEH YLALPDFYRQKRDILVNALNES RLEILPCEGTYFLLVDYSALSTL DDVEFC*SLTQEHGVAAIPLSVF CADPFPKLRILRIQTAAINLLVN HERRANAVINVDHAEIPFLRIIL PFLRQRQHHAVIDDHPNAELL FQQIFHLHRRCPRRFRHGLRHA GHRINLTVDFQRQVDGMVRPQ FTVAMPAIFRFRTAAPSASVHQ SGVRLPYQFMALIASDNFCCW VHGGYITLAVNGNDAIGSVFNN QIVKCPRTQCLGEVINTLTDLP HFTGQLW

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21554	51922	B	21682	160	312	
21555	51923	A	21683	80	452	
21556	51924	A	21684	158	1980	REDTAHLPAVGFLPQNPFRAIR ASGEMLLPLLLLLPMCWAVEV KRPRCV\SLTNHHFYR\ESKPFT\ CLDGSATIPFDQGGRLTYCDCK \DGS*RSQATAA\CP\NGQAFHC HQTLGL*SPL**SPSKPGSNDGV CDCCDGTDE\YN\SGVI\CENTC KEEGPVRRESLQQMA\EVTRE G\FRLEEDPLFEGLGKKAREEK QKKL\IELQAGK\KSLEDQ\VEM LRTVKEEAEEKPEREAKQHQK LWE\EQLAGFQGPNREQDARA ADAFKELDDMDGTVSVTELQ THPELDTDGDGALSEAEAQALL SGDTQTDATSFYDRVWAAIRD KYRSEALPTDLPAPSAPDLTEP KEEQPPVPSSPTEEEEEEEEEEE EEAEEEEEEEDSEVQGEQPKA PPPLSPPQPASPA\EEDKMPPYD EQTQA\FIDAAQEARNKFEEAE RSLKDMEESIRN\LEQEISFDFGP NGDV\FAYLYSQ\CARDLTTNE YV/YTRLCPFQVLFFAGNPNSG VFPTSLGHLGASW/VLGPDHGQ VSVAMKF*ARHGACWQGNPL QHP*RFWFGKET\MVTKHPQ*P SRCEYLHGS**TPAA\CPEPPAL KQPQPKD\DHDEVLSWMGARE
21557	51925	A	21685	59	359	LLRIGNDWCIPKGITPTTHIILP IGEIRQPNATLDLSQSVDNEYY CLLLAKELGLNVPDAEIIKAGN/ GARVSGRTF*QALEC*ANGFTS LATGGYVSDI
21558	51926	A	21686	1	213	MSIAVTTTDPNTGVSTTSSSSL TGSNAADLQSSFLTLLVAQLKN QDPTNPMENNELTSQLAQISTV SGIEKLNTTLGSISGQIDNSQSL QASNLIGHGVMIPGTTVLGTG SEEGAVTTTTPFQVELQQAADK VTATITDKNGAVVRTIDIGELT AGVHSFTWDGTLTDGSTAPNG SYNVAISASNGGTQLVAQPLQF ALVQGVIRGNSDITTFGVNMKL AHLGRQALMGVMAVALVAGM SVKSFADEGLLNKVKERGTLLV GLEGTYPFQSGDDGKLTGFE VEFAQQ*FAHGQQRRTKQFS DFAGGAAEKPGPDQSNGKQRA DVAIGTNQHGQRD

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21559	51927	A	21687	1	2339	MSGGQTEKQAQLIRDFQPDMI MVTPSYCLNIEELERQLGGDA SGCSLRVGVFGAEPWTQAMRK EIERRLGITALDIYGLSEVMGPG VAMECLETDDGPTIWEDHFYPE IVNPHDGTPLADGEHGELLFTT LTKEALPVIRYRTRDLTRLLPGT ARTMRRMDRISGRSDDMLVLR RRHLCRPSACQLCRPPSLPATD RVLELFAQSGAQWLVLGDVL NHGPRNALPEGYAPAKVAERL NEVAHKVIAVRGNCDSVDQM LLHFPITAPWQQVLEKQRLFL THGHLFGPENLPALNQNDVLV YGHTHLPVAEQRGEIFHFNPGS VSIPKGGNPASYGMLDNDVLS VIALNDQSIIAQVAINPAPEKEG FLIMEQRRLASTEWVDIVNEEN EVIAQASREQMRAQCLRHRT YIVVHDGMGKILVQRRRTETKDF LPGICATSKVRKLLCKSAALLP VSELLLVLLTPVFVGSVIGKL GAFAIHIDGITVKRRLVRNTVL QFCGRSRQPLEYVSAGDTGPVL RALKRMAMRHYMRSQTVKG VTDTRAIDEVALSVAQVEEMY RYLAIANYEDRFVIPTSHREMA GDAFAERNCGFTFGDGCHGS DSKFNLFNSSRIDAINITEILKVI GLLMEYPDELLWECKEDALALI RRDAPMLTDFTHNLLNAPLLD KQAEWCEVFDRGRTTSLLLFEH
21560	51928	A	21688	391	631	
21561	51929	A	21689	2779	3348	LMQLHNGLPVAGLRQFCQQLV IQRLYFFTTATAHQCTRHMCHR HRSLLTAHRQMALCFQYVDDL HHAFADVLINNACYPLLMGEQ GVFIYNGTQQLLHWVIIDSRQD HGFGGL*KSRIVCERRRL*SQH GQFVFRHHVPDHRIDIAFNAL *TLVIREISSVPASVGVGIDFPGG AATWAGPVVIKPGQS

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21562	51930	A	21690	1	1239	MPNVDDVVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVSTTSSSSLTGEQRRRFTK QFSDFAGGAAEKPRPDQSNGK QRADVAIGTNQHDAARILRKG TMTTLLNPYFGEFGGMYVPQIL MPALRQLEEAFFVSAQKDPEFQ AQFNDLLKNYAGRPTALTKCQ NITAGTNTTLYLKREDLLHGGA HKTNQVLGQALLAKRMGKTEII AETGAGQHGVASALASALLGL KCRIYMGAKDVERQSPNVFRM RLMGAEVIPVHSGSATLKDAC NEALRDWSGSYETAHYMLGTA AGPHYPTIVREFQRMIGEETK AQILEREGRLPDACVGGGS NAIGMFADFINETN/VSVGPQH AYLNSSVRAD*VSITDDEDLQA FKTLTASYKTTTAAAKTSLHVP
21563	51931	A	21691	32	1778	WDARVFSHSGWVLYLIRQYCSI SAVSSCGSTTGSACSATSWATA TSDSVTHLRLFSYRGSDHFRMR RFNHFRRLRFGNLNGGFYDTGHF FNNWRANNRFDSSGDRDLSSH RLHMYFFLFALLFNLYILRTYN WIADPDFARGQFRRRARYGQR HWRLGWITLVTIATTTTLYAQ VTRRAARTTRHATVVTVISIVL FLLFWCSLRYDWHYCILILRSTP SVLSQYPVGNELRRRLVHLHL LCTYSDDDSRDPRYRQESRTRN GVVPPVIVNIDVHRFGQTGDQH GAMIIPVIFLLNVAMHERASGHI PNGNRTYYLSRSQPPVFALMVE LFEEDGVA VARYLDHLKMEYA FWMDGAESLIPNQAYRHVVRM PDGSLHRYWCDCHTSCD*SW LEDVETAKHSGRPPNEVYRDLR AGAASGWYSSRWLRDTGRLA SIRTTQFIPIDLNAFLFKLESAIA NISALKGEKETEALFRQKASAR PMREYETGEQWDKPNGWAPL QWMAIQGFKMYGDDLLGDEIA RSWLKTVNQFYLEQHKLIEKY HIADGVPREGGGGEYPLAQDGF GWTNGVVRRLIGLYGEP

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21564	51932	A	21692	1	2514	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMPADFRE FVFTIADKVG FARER IILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSM SAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNYIECDYNRWRRH SWINS LLSQKRNTQGRIEDGRQH
21565	51933	A	21693	1	1527	
21566	51934	A	21694	792	1602	HCLSARRYELVCQPK*AFVR*L LR*IAVLR\HLNIQH LRRSHSLR HGRRHTRKGERGTINIVNGTPI HERSRNIDNRRSPSPYIRKRG AH TELRS DHPL LINQHWHHFAGM VAVTNGRIVAVIRHHDQAIWL HRLNKP GKVT VNDLQTFGITCD VFCMTSEVGFLNVGANKRRRM GVKFVEGDIHNPLAIHQILPAH AIRIVDDICH LTHQHGW HACFI QFLWHLHFFIDAIAHMDLET V VISARTRRIDTNKAPFFAFCGIE
21567	51935	A	21695	1	1530	LSQQTVNTLQAGHQTIHFFMG VIHGQRRP THRRDVVIGHQWH CAVMSGTHSNAV IIEKTANIIGV VFTEIKSNNAKPVLWAIESNAA ATDGEIVFDGEILKSACEINDSD KKIEVALGHYNAEQFRNIGERS PKIPFTIPLVNC PMTGEIANILGS KPGTIFTMLRDTGGIKPHERKR AVAHLTLSEREEIRAGLSAKMS IRAIGYWR*IASPSTFSRE\VQRK GGHR\YYKAVDANIRANRMAK RPKPCLLDQNVPLRKL VLEKLE MKWSPEQISGWLRR TKPRQKT LRISPETIYKTLYFRSREALHHL NIQH LRRSHSLRHGRRHTRKGE RGTINIVNGTPIHERSRNIDNRR SLGHWEGLVSGTKNSHIATLV DRKSRYTII VRLRGKDSVSVNQ ALTDKFLSLPSELRKSLTWDRG MELARHLEFTVSTGVKVYFCD PQSPWQRGTNENTNGLIRQYFP KKTCLAQYTQHELDLVAAQLN NRPRKTLKFKTPKEIIERGVALT
21568	51936	A	21696	2	140	IITNSISRPGDPPMSDPHS*SPAS SSAKTETKSLFNAFLV

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21569	51937	A	21697	1817	4083	KGLLTSFHYIKTPEVPNLCVEG GTRLQIWPACSSSTGSGGTCWK APPQPPRPPTSSSPS/PAPPSEAF VLSAGAMQLEAGAYSLVIKES KNNVGVDVIKRRHFCTAGGNV NQYNHYGKHCVLSCSGPASGA QPLYRMAQPPSPNMAAGIPPA ARISSITSPLLKPSWLHLLAHP VLQAHLTEEGLGRSHHVQRGQ CLVSKSVFTNACWEMQNVKRF TDFIPLHKNTRGPEPLCRRRNQ APNMACMQQHWQRRN
21570	51938	A	21698	247	281	KPGKQHSMLK*SALLPSAHGPT S/CKEARCHPVQILPELLF*MP KKICPPLCYLWTVKAWETTFH AEV
21571	51939	A	21699	531	716	PRRLRAAPPDLGGFRLLPR/LPE ASGCSP*SQRLFQKAPSPAPCS WRRSRFCVKTCVLPMGGQ
21572	51940	A	21700	202	606	ITCLHAHVTWCQILPYLMLPAP LLRPLPTPLTVAGVGQSLPEIQL SVTLPLQPGRNQGSLESRLVLS WAEP*DPAVSALPLQPGRNQG SLESRLVLSWAEP*DPAVSAL PLQPGRNQGSLESRLVLSWAEP
21573	51941	A	21701	444	1167	FRLHGHLERGPFYFLSPLAVQS SQSCLRRFTTRYHLPIYVLNRK NSWHVAHIFRRHAKPEEQAPIY SHIHFTSDLDEVLPDVKLVV VCTHADSHFEYAKRALEAGKN VLVEKPFTPTLAQAKELFALAK SKGLTVTPYQNRFRDSCFLTAK KAIESGKLGEIVEVESHFDDYR VAETKPLPQDGAFFYGLGALFT NQQGFKSSLLSIFADSSSSVAG RSPHNLVKKRGGIVAIASAFAG
21574	51942	A	21702	1	668	

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21575	51943	A	21703	1	1308	MRVYMDGRLIVSTRQRKVLAA GPMLYAA TRAPAF TMSGDNLV RSHASIYMTSCH TLLGEQAGYA VFGALLPAITLLHLNSACCIVYV SCLLADAGHRDSLQQA GDKWT TTDSYSSSCTSETLGSACVRYA HSSRNHVRFALS DLDEV LNDPD VKLVVVCTHADSHFEYAKRAL EAGKNVLVEKPFTPTLAQAKEL FALAKSKGLTVTPYQNR RF DSC FLTAKKAIESGKLGEIVEVESHF DY YRPVAETK PGLPQDGA FYG LGVHTMDQIISLFGRPDH VRL* HPGALRNKSPIW TNPFEAQLAFY GDLKAIVKTSHLVKIDYPKFIV HGKKGSFIKYGIDQQETSLKAN IMPGEPGAADDSVGVLEYVN DEGVTVREEMKPEMGDYGRV YDALYQTITHGAPNYVKESEVL TNLEILERGFEQAS PSTVTLAK
21576	51944	A	21704	199	706	SHDVCRINADRQRDRNNRRQR RSLRVYKLG NQQQNNGIGPRIL FHHFTQYALNFRHMRTEHGFC HPCDTVHRHDGDHTGTEDFVF/ WR*TRDWFWSG*YQRP GQQH KHLNNQYHRQRFAAEGWTQV RISTKKGDYSDCPEENPHCQPV AGRYHYSLVGRVSNATLARLIR
21577	51945	A	21705	354	569	SRAVCWQVGTRLW AIFGVS*E LQRHVLVV FAGFWIVKNSRNL FLVCRAEHKRSVVKGLLRQQG AGLLVPLS
21578	51946	A	21706	373	462	
21579	51947	A	21707	1	1293	

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21580	51948	A	21708	1	1371	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYYILPTPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLRVIPSIM VGSVCGAVTAALVGAQCYAG WGGLIVLPVVEGKLGYYAABA VGAVVTLVFV*TC*KVWRVKM GLRLMKKKTTWIWILKLI
21581	51949	A	21709	961	1116	
21582	51950	A	21710	228	388	RRGRNRYPALQ*TMFLPADGP ARCLSRQAAILKESVLPK*GRP DVVFSPAYPY
21583	51951	A	21711	1168	1851	LHRTGQRPAQAQRTETHHPFFNH FARLQVDTVVINHHQHTVAFQ NRTFRSEI*RNNVDIFQPDVLPD ILLGPVREREDADAFVNLVP VVVPQLRALIFRIPAMEAVTER VNSLFSAGFLFVTARTTEGGIKT VFVQRLFQAFSFHNIGMFRAAV HEWINPHRHAFRVFMHQQFAA VGFSSTIAELIHLAEFPAGIDMQ QRERQRTWIKRLARQMQRHDAG IFTDRVEH
21584	51952	A	21712	1	2653	
21585	51953	B	21713	632	709	

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21586	51954	A	21714	1	1214	MHDQQVIDAYHPDLRRTRAAS QSIIPVDTKLAAGITRFFPQFND RFEAIAVRVPTINVTALDLSVTV KKPVKTDVGGAGTVKLNRCQI ARISRQDVITPPGCVFEKALTLL IASGRNDTLARQNNHTKESLVE KPFRKILVIKMRYHGDMLLTTP VISTLKQNYPDADIDMLLYQDT IPILSENPEINALYGISNKGAGTF DKIKNVLSLIKTLRANNYDLVI NLTDQWMVALLVRCLPARMKI SQLYGHRQHGIWKKSFTHLAPI HGTHIVERNLSVLEPLGITDFYT DTTMSYAEDCWKKMRRELD LGVKDHYVVIQPTARQIFKCRD NDIISKVICMIRGSPTEGRWSVF FFYPADFTFVCPTTELGD/GC*PL RRTAETGRRRIRSIYRSLHPQS
21587	51955	A	21715	25	1086	
21588	51956	A	21716	1	1113	
21589	51957	A	21717	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELS HYTVVLLLFRKRSRFQSNVQ RKLMTNF
21590	51958	A	21718	1	2076	
21591	51959	A	21719	2742	3109	VWTEGTGNASRRARR/WKGNQL LPVSLVKRKTTLPANTQTASPR ALADSLMQLARQVSRLEKRAV SATQLMAKAVKGQSLLPVSL VKKKNHPGALIRKPPLPARWPI LLIQLARQVSRLETGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21592	51960	A	21720	174	1608	TAAKRKIPSASIRSIND*KY*VC KRT*CVGQLAAENADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNIDSWKNA GR VLMNPLMILVKIILSLTLACH ALLDCKTLTLTELGRNLPTKAR TKHNIKRIDRLLGNRHLHKERL AVYRWHASFICSGNTMPIVLVD WSDIREQKRLMVLASVALHG RSVTLYEKAFPLSEQCSKKAHD QFLADLASILPSNTTPLIVSDAG FKVPWYKSVEKLGWYWSRV RGKVQYADLGAENWKPISNLH DMSSSHSKTLGYKRLTKSNPIS CQILLYKSRSKGRKNQRSTRTH CHHPSPKIYSASAKEPWVLA TN LPVEIRTPKQLVNIYSKRMQIEE TFRDLKSPAYGLGLRHSRTSSS ERFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN VLSTVRLGMEVLRHSGYTITRE DLLVAATLLAQNLFTHGYALG
21593	51961	A	21721	1	3285	
21594	51962	A	21722	1095	1188	
21595	51963	A	21723	568	1263	
21596	51964	A	21724	2	1688	
21597	51965	A	21725	1456	2046	SKGKVAIVSSHQEVRA SPRRSP LGSEERPGPHTSRQAAGQPHPG TCSSVHCQGSWGLQTQNSEVIH DGDVEAISVGEDAAPGPRVHG ADLGQEEEA FR*VVMGGLPDR DSALAPVPEPMHRGWAVRAAE GAVQNDPVGGSESWGAGSHS QPFSHRPAPHTRGLAQAQTEAA GEGAVPEVHRGAVLAGVRAPG WAQP
21598	51966	A	21726	335	595	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE*I L\WTGGDNESVS/MR*FFRPLER DLYNRIWHEIGLLLVSL
21599	51967	A	21727	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVAIRCP LYLLTGLIFVSKNGLWYCELS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21600	51968	A	21728	622	1281	

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21601	51969	A	21729	1066	1827	VPQAKGNNVVITSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQQQLTWLQVAKRAG LGGGQSGRTVLRERVRIEIAST HIALQHAIVTGDAVGMDDIPQE ARQYRHNQAYAYSIIQGDGAED DDERIAFASHTIQECRSQGP GG YPFKIYSSRKDRIPISQS LLESHF TVHEETAPDLETTG*PGCKDHG NLCC/LSSVKLRYSMYRIKAGL WMTHPG*RTYWV
21602	51970	A	21730	1	1326	
21603	51971	A	21731	1	1971	
21604	51972	A	21732	1	1626	
21605	51973	A	21733	1	1810	
21606	51974	A	21734	305	442	AGLFKSRKVSSICIRFE*ILT SCL GVRISTGKLVARIHGSFADAE
21607	51975	B	21735	1	1938	
21608	51976	A	21736	531	669	AGLFKSRKVSSICIRFE*ILT SCL GVRISTGKLVARTHGSFADAE
21609	51977	A	21737	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21610	51978	A	21738	10	426	
21611	51979	A	21739	314	451	AGLFKSRKVSSICIRFE*ILT SCL GVRISTGKLVARTHGSFADAE
21612	51980	A	21740	1	1139	MWGIGSRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYLRLVGKNLHVSAMGLGK SQERRKKALKSQPQQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLLACLGMG KCSCSGFWLYF
21613	51981	A	21741	306	444	AGLFKSRKVSSICIRFE*ILT SCL GVRISTGKLVARTHGSFADAE

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21614	51982	A	21742	189	1089	HHTAHCQ*CWL*S/DHGINPLRS WVGTG*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWWVEAANLLI PAVGSSLSEALDLIES
21615	51983	A	21743	1	1135	
21616	51984	A	21744	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21617	51985	A	21745	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21618	51986	A	21746	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLPASLTMSGVVLL GRMLARSARNWS
21619	51987	A	21747	391	527	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21620	51988	A	21748	671	1030	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE*I LGDGW*Q*VRVER*FFRPLERD LYNRILACPLINT*PTPVVRLKP *TVWSMGPVVGTPARPIRTSGA CWWCW
21621	51989	A	21749	221	478	AEQDCTILPVL RHFTFFKSRKVS SICIRFE*ILTSCLGVRISTGKLV ARTHGSFADDQTLFFMTLAVS GELWTPSPWRPNISRTS
21622	51990	A	21750	590	940	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21623	51991	A	21751	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT

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21624	51992	A	21752	342	1459	SFLWRFRRLRGGSERFCLAGIPSA SGV*NIPSASIRSIND*KY*VCKR T*CVGQLAA\ENADGTVAEYN GYHVVFALAGSPKDADDTSIY MFYQKVGDNIDSWK NAGR VF KDSDKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YGKQSLTTAQVNVSKSDDTLKI NGVEDHK TIFDGDGKTYQNVQ QFIDEGNYTSGDNH TLRDPHYV EDKGHKYLVFEANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSAKKRDAELANGALGII ELNNDYTLKKVMKPLITSNTVT DEIERANVFKMNGKWYLF TDS RGSKMTIDAKSTLLESTEGSMT PPMTATEPFLRFLKGEIAQPKPH
21625	51993	A	21753	2094	2201	
21626	51994	A	21754	81	1080	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWK PISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSR SKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLA TNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQEHPLWSL ALVRRRSPAQSPHVG TGSSGST GCSSQAPCMKSNNALIVILGTV TLDAVGIGLVMPVLPGLLRDIV HSDSIASHYGVLLALYALMQFL CAPVLGALS DRFGRRPVLLASL LGATIDYAIMATTPVLWYPLV
21627	51995	A	21755	80	430	RWLATHYLT VKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALS VRAIRCP LYLLTGLIFVSKNDLWYCE LQS HYTVVLLLFMRKRSRFQSNVQ RKLM TNF
21628	51996	A	21756	1	593	MGVNDLWQILEPVKQHIPLRNL GGKTI AVDL SLWVCEAHPVKK MMGSVMKKHLRDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AAYPIPDQVQSVLISMLLIAL MLHLTCGLAGVHAQKQGWDK HFQANTVRNRNVLSTVRLGME VLRHSGYTITREDSLVAATLLT QNLFTHG YVLGKL*GDSLVSLSL
21629	51997	A	21757	410	547	AGLFKSRKVSSICIRFE*ILT SCL GVRISTGKLVARIHGSFADAE

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21630	51998	A	21758	719	814	AGLFKSRKVSSICIRFE*ILTSCL GVRIFNR
21631	51999	A	21759	1	1596	
21632	52000	A	21760	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21633	52001	A	21761	1343	1480	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21634	52002	A	21762	2	151	
21635	52003	A	21763	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21636	52004	A	21764	1	3081	
21637	52005	A	21765	449	586	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21638	52006	A	21766	563	2042	
21639	52007	A	21767	1001	1093	
21640	52008	A	21768	1814	1870	
21641	52009	A	21769	2760	3723	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWKPI SNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSR SKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNVLSTVRLGMEVL RHSGYTITREDLLVAATLLAQN LFTHGLFGPSVDAPPPKRGFKR PKLPELRLQRFFGGVITPPLESY SLPSDPVHLFPPRRPPRQLTASP LRARAPYECSSCKDA
21642	52010	A	21770	860	3503	
21643	52011	A	21771	4597	6030	
21644	52012	A	21772	1513	3464	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21645	52013	A	21773	1	453	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21646	52014	A	21774	1	1526	MSSSHSKTLGYKRLTKSNPISC QILLYKSRKGRKNQRSTRTHC HHPSPKIYSASAKEPWVLATNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEE\EANS\ PNNKITVVGV\GQVGMA\CAISI LGKVS WPDEL\ALVGCFWEDK LKGGNDGSFQHGELIFFQTPKN CGQDKGLFWGPPNS*RFVSW*L AGSPVQPRRGRIRLKS WVPEK WLMVFQIPLFLKIV\KYSP*FAS* LVVSHPV\DIPTYVT\WETKVGL PKHRVIGSGCNLDSARFYLMA EK\LGIHPS\SCHGW\IFWGEHG DSSVAWCWNGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLGKGTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGMYGIE NEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKSA DTLWDIQKDLKDL
21647	52015	A	21775	2	355	
21648	52016	A	21776	2	178	
21649	52017	A	21777	1	888	
21650	52018	C	21778	127	255	
21651	52019	A	21779	1	1824	
21652	52020	A	21780	330	476	
21653	52021	A	21781	452	500	

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21654	52022	A	21782	3	1584	DAWAAVSRGDEPGWGSWSR LLQHWGVSCWSDPKRFSSALQ GYIITDWCAPFNKRIWKREQPE ETFPNTETNGEFGK\RPAEDME EEQAFKRSRNT\DEMVEL\RILL\ QSKNA\GAVIGKGGKNIKALRT DYNASVSVP\DSSVPERILCISA DIETIGEILKKIIPTEELQLPSP TATSQPLESDAVECLNYQHYK GSDFDCELRLLIHQSLGREIIG GQRCLKSKELRGGTLQTTIKLF QECCPHSTDRVVLLIGGKPDRLFV\ ECIKIILDLISESPIKGR\AQPYDP NFYGWKPMDYG\GFTMMFDD RRGRPVGFPMRGRGGFDRMPP GRGGRPMQPYRRDYDDMSPRR GPPPPPPGRGGRGGSARNLPL PPPPPPRGGDLMA YDRRGRPGD RYDGMVGFSADETWDSAIDTW SPSEWQMA YEPQGGSGYDYSY AGGRGSYGD LGGPHTTQVTIPK DLAGSIIGKGGQRIKQIRHESGA SIKIDEPLEGSEDRIITITGTQDQI QNAQYLLQNSVKQYSGKFF
21655	52023	A	21783	211	1635	KNMETEQPEETFPNTETNGEFG KRP AEDMEEEQAFIRSRNTDEM VELRILLQSKNA\GAVIGKGGK NIKALRTDYNASVSVPDSSGPE RILSISADIETIGEILKKIIPTEE GLQLPSPTATSQPLESDAVECL NYQHYKGSDFDCELRLLIHQSL AGGIIGVKGAKIKELRENTQTTI KLFQECCPHSTDRVVLLIGGKPD RVV\ECIKIILDLISESPIKGRAQP YDPNFYDETYDYGFTMMFDD RRGRPVGFPMRGRGGFDRMPP GRGGRPMPPS\RRDYDDMSPRR GPPPPPPGRGG/RGLGSARNLPL LPPPPPPRGGDLMA YYKRGRA GDPYDGMVGFSADETWDSPID TWSP\SEWQMA YEPQGG\SG\Y DYSY/AQGGRSYGD LGGPHTT QVTIPKDL/ALGSIYWKKGQR\ IKQIPS*VGELSIKIDEPL\EGSED RIITITGTQDQIQ\NAQYLLQ\N SVKQYADVEGF
21656	52024	A	21784	860	1201	TISEPPALILLPIAVPSFSTTCRLP EDIIVVSFAFPPLLIFCVPLLILVP VAMP*LLIFCVPLIMVFVAFPA TSITPPLSIRVASALALVKTDIVP LSLIIVLFAEPYAFMSK

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21657	52025	B	21785	1	3750	
21658	52026	A	21786	1	1350	
21659	52027	A	21787	189	1939	TAMAGRMPCAEVISGSATRPD GPKALFKPIGRPHQAIKPP AAPPKQAVTNGFMRGRVPPKT LTPVSESSLAPMTLVVIVVKEA LPPAKIFSTPVYPQPTRRAPDAE PLSASKTPSVYLVNFVVSPEL RKLTVDVLPALRANTRALWQV EVSAPFSFMTQATPATQPLINAE PAVAAPTEQNPQVGPVMPGVQ GADAPVVAQNGPSRDVCLKTFA PIAPPPGSMVLRGLNPNGSLEFG MRSDEVVTKAMVQLELTPWH GYGCQCPFLPVKYLYAAIGFSV MIEALNQLAIFNRRRFLSANQT LRQRTTEAVMRLLSGQKEDAE LDAETASMLVDHGNQQIFNPQ ERRMIERVNLNLQRTVSSIMTS RHDIEHIDLNAPEEEIRQLLERN QHTRLVVTGDGDDAEDLLGVVH VIDLLQQSLRGEPLNLRVLIRQP LVFPETLPLPALEQFRNARTHF AFVVDEFGSVEGIVTLDVETI AGNLPNEVEEIDARHDIQKNAD RSWTGN/GLLPLGDCRL*QASP TGCINRRGS\HYGYPTLYEFRKR FLTPGTVCRCRQGDAMRVQ VQWVFYTYILPLANE
21660	52028	A	21788	558	1563	TNNRL*K*GNN**LTNQKKSRT RWIHSRILPEAGC/GIASVGRNN CGLWRFTPAKAISWGKIHPVFQ RQILRVLSQTLFPN/MSLGRNLG YGLKMFGVPRAELKPRFKEALP MVNLEGFEDRFVDQISGGQQQ RVALARALILKPKVLLFDEPLS NLDANLRRSMRDKIRELQKQF DITSLYVTHDQSEAFVSDTVL VMNKGHIMQIGSPQDLYRQPA SRFMA SFMGDANLFPATFSDG YVDIYGYHLPRPLHFGTQGE MVGVRPEAITLSDRGEESQRCV IRHVAYMGPQYEVTVEWHGQE ILLQVNATRLQPDVGEQYYLEI HPYGMFVLADAA
21661	52029	A	21789	201	312	CSWHDRFPDWKAGTHLLARG* QLSLPVWLCPVLKLS
21662	52030	A	21790	925	2388	
21663	52031	A	21791	1	759	

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21664	52032	A	21792	1	1086	MEKKITGYTTVDISQWHRKEHF EAFQSPAQCTKNQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKGVPGGDSV KNTSRVWSGNERDQKLLTENA LNDLIPSFLTGTGQTPALGRRVS GVIEIADGSRRRKAALTESDY RVLVGELYDEQMPPLSRLGND YRPTSAHPQKRRYASRLQNEFA GNISALADAENISRVRDYNLLL EVLGVDSVEKTRVWSGNERD QELLMEDALDDLIPSFLTGTGQ TPAFGRRVSGVIEIADGSRRRK AAALTESDYRVLVGELDDQEM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIIPRCINS\AKLP
21665	52033	A	21793	1	935	MLRDLLKNVDLKGFEVDVIRLL TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGV MARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGTGQTPAFGRRVSGVIEI ADGGSSRSKKRRRGCEGGRR/V RQGCPDQKHAAFSVSGGKIHL SGRTPVEKRPRLPQPRDLGARA FAACRGSRGPRWNWLPAA LRL HADLGCVRGGGGGWPGANPY PAPASSTC
21666	52034	A	21794	181	923	QHAIVTGDVAGMHHPQEARQ YRHNQAYAYS IQGDGAEDDDE RIVRFHTRCLTEAFEKLQCGGV VNQLSRRGNQHHISSTYDINRA DTQVRRAVNNYDIIVMSNSFN ASRSIRCGSVGLPSSNLPINSVS IRCRAR/SG/EE*CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPEDQEQKLRFCR HLYGQQPRSPVEIRLQHVAIAY PTHAYD

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21667	52035	A	21795	178	798	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRVNNYDIIVMSNSF NASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRPFPQDRKAGECLLH EYEDLVPIRDTLRLFPGGRYLPR AKHVAPSEPDPQDEQKLRFCR RHLYGQQPRSPVEIRLELVAIA YQTHHA
21668	52036	A	21796	499	972	
21669	52037	A	21797	3	1141	SRVKLGQSSSQVAALKTREPM NIATLEVLVLKGLRVCFVKVNH PKGPAZMPYGPVPIYIHAEDP LLPFYLGEKEDVTYAIKPTCWP GLDIIPSCALPRIETELMGKFD EGKLPTDPLMLRLAIETVAHD YDVVIDSAPNLGIGTINVCAA DVLIVPTPAELFDYTSALQFED MLRPLLKNVDLKGFEVDVRIIL TKYSNSNGSQSPWMEEQIRDA WGSMVLKNVKEFAGNISALAD AENISRKIITRCINTAKLPKSVV/ ALFHPGELSA\GDALQKAFTD KEELLKQQASNLHEQKKAGVIF EAEVITLLTSVLKTSSASRTSL SSRHQFAPGATVLYKGDKMVL NLDRSRVPTCEKIEAILKELE
21670	52038	A	21798	1	617	LEPASLSIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHISSTYDINRADTQVRRVNN YDIIVMSNSFNASRSIRCGSVGS LPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQD RKAGECLLHEYEDLVPIRDTLR LFPGGRYLPRAKHVAPSEPILSC
21671	52039	A	21799	181	953	QHAIVTGDVGMDDIPQEARQ YRHNQAYAYSIGDGAEDDDE RIVRFHTRRLTFKINVLEQITKHI EKLQCGGVVKQLSRRGNNQHI SSTYDINRADTQVRRVNNYDI IVMSNSFNASRSIRCGSVGSLPS SNLPINSVSIRCRAR/SG/EE*CQ APASKWALLHK*HRPFPQDRK AGECLLHEYEDLVPIRDTLRLFP GGRYLPRAKHVAPSEPDPQDE QKLRFCRHLYGQQPRSPVEIR LQHVAIAYQTHHAYD
21672	52040	A	21800	1	798	
21673	52041	A	21801	1	1782	

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21674	52042	A	21802	666	1131	KGRGTYGNERDQELLTEDALD DLIPSFLTGGQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTRQ LPKSVVGGFFSHPGELSARSGDA
21675	52043	A	21803	1	3297	
21676	52044	A	21804	1	898	
21677	52045	A	21805	1	1977	
21678	52046	A	21806	1	1929	
21679	52047	A	21807	181	755	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIIQGDGA\GMTM SALLDFIHGA***YIRCGSVGRL PSSNLPINSVSIRCRAR/SG/EE*C QAPASKWALLHK*HRPFPQDR KAGECLLHEYEDLVPIRDTLFL FPGGRYLPRAKHVAPSEPDPEQ DEQKLRFCKRHLVGQQPRSPVE IRLQHVAIAYQTHHAYD
21680	52048	A	21808	181	456	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLA*SRRVNNYDII VMSNSFNGQSEHQVWIGGQFT FIKFAH
21681	52049	A	21809	1	780	
21682	52050	A	21810	1	1050	
21683	52051	A	21811	5	735	PPAAP/MGNLLMARVGVKARG KAHYLPLLRGESVRKTSRVGSG NERDQELLTEDALDDLIPSFLT GGQTPAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDD EQMAALSRLGNDYRPTSAYER GQRYASRLQNEFAGNISALADA ENISRQIITRCINTAKLPKSVVAL FSHPGELSARSGDALQKAFTEK RTLKQQALTSEQKKRGI/YEAE EVSSSLSPQGRLSNRSASKDMY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21684	52052	A	21812	1	887	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETK AVGSGNERDQELLTEEAWNDL ILSFLTGTQQTTPAFGRRVSGVIEI PDGSRRRKAAALPKSDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFVSHPGELSARS GDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDRSRVPTEC/IEKIEA ILKELEKPAP
21685	52053	A	21813	345	921	RWRLQNLSCSSCSGSGSEGAT CFARGSA YELGQRYASRLQNA FAGKISALADAEIFSRKIITRCIN TAKLLKSVVALFVSHPVLSARS GDALQKAFTDKEELLKQQASN LHEQKKAGVIFEAEVITLFTSV LKTSSASRTSLSSRHQFAPGAT VLYKGDKMVLNLDRSRVPTEC IEKIEAILKELEKPAP
21686	52054	A	21814	1	1989	
21687	52055	A	21815	6	311	
21688	52056	A	21816	3	848	PGGDSVKNTSRVWSGNERDQK LLTENALNDLIPSFLTGTQQTTPA LGRRVSGVIEIADGSRRRKAAA LTESDYRVLVGELYDEQMPPLS RLGNDYRPTSAHPQKRRYASRL QNEFAGNISALADAENISRVRD VNLLLEV LGVDSVEKTFRVWS GNERDQELLMEDALDDLIPSFL LTGTQQTTPAFGRRVSGVIEIADG SRRRKAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSA YERGQRYASRLQNEFAGNISALA DAENISRKIIPRCINS\AKLP
21689	52057	A	21817	1	969	
21690	52058	A	21818	1	1614	

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21691	52059	A	21819	1	832	MDDIPQEARQYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLARD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPFFLL TGQQTPAFGRRVSGVIEIADGS RRRKAAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAQLAKSG VALFSHPGELSAPSGDAL*KAF TD*EEFL*PQGSNLYEQKKAG\ VIFGS*KKFSLFLTSTVV
21692	52060	A	21820	678	1338	TLRQTKPDNSAEIADGSRRRKA AALTE\SDYRVLVGELDDKQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVLKTSSASRTSLSSR HQFAPGATVLYKGDKMVLNLD RSRVPTIEKIEAILKELEKPAP
21693	52061	A	21821	1	1809	
21694	52062	A	21822	2	1010	
21695	52063	A	21823	284	2177	
21696	52064	A	21824	1	1296	
21697	52065	B	21825	1	1044	
21698	52066	A	21826	637	1073	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRVNNYDIIVMSNSF NASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRPFPQDRKAGECLLH EYEDLYPSVIH
21699	52067	A	21827	1	2403	

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21700	52068	A	21828	1471	3186	LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFTPVI GVAAIKTGTTVHIVSSSSLLGG DHGPSRIGGLLLVCDYGPLVSS SGISGPTRIVGLIISLPGYHLCF RSDYRTGITDPLYIGDATIRVSL RVYSLPSRSRIEHVVANCGMIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVVFALAGSPKDADD TSIYMFYQKVGDNIDSWKNA GRVFKDSDKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GVMARGNAITLPCGRDVKYT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLMQQASNLHEQKKAGVIFEA EEVITLLTSVAKTSSASRTSLSS RHQFAPGATV\LYKGDKMVLN LDMSR\VQLECLDRLHACRSTL
21701	52069	A	21829	158	926	AGPVIQNYVNTQPV/EETSYSTP AAPMVDSLIARVGVMAPGNAI TLPVCGRDVKFTLEVLRGDSVK KTSRVWSGNERDQELLTEDAL DDLIPSFLTGTQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQGGSSRV GDNSIDSWKTRGRVL
21702	52070	B	21830	1	3774	
21703	52071	B	21831	1	1495	
21704	52072	A	21832	556	1622	
21705	52073	A	21833	1	2616	

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21706	52074	A	21834	1412	3310	SVTSCLKVTSVCLTSAAASCRS VLMRSTAELQCASHTLRKRKA ARRLISLMMTARKARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHM RDVFGTRLRRAEDVFP PVIGVAAHKGNDPQGTASMYH GWVPDLHIHAEDTLLPFYLGEK DDVTYAIKPTCWPGLDIIPSCLA LHRIETELMGKFDEAQPNLGIG TINVVCAADV LIVPTPAELFDY TSALQFFDMLRDLLKNVDLKG FEPDVRILLTKYSNSNGSQSPW MEEQIRDAWGSMLKNVRET DEVGKGQIRMRTVFEQAIDQRS STDTSLSPTAAPMVDSLIRVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLTGTQQT PAFGRRVSGVIEIADGSRRRKA AALPE\SNYGVLVAELDDEQMP AYPRLGNDYRPTSAYERGQRY ATRLQNEFAGNISALADAENIS IITRCINTAKLPKSVVALFSHPG ELSARSGDALQKAFTDKEELLK QQASNLHEQKKAGVIFEAEVI TLLTSVLKTSSASRTSLSSRHQF APGATVLYKGDKMVLNLD RSR VPTECIEKIEAILKELEKPAP
21707	52075	A	21835	783	2371	
21708	52076	A	21836	3236	4718	
21709	52077	A	21837	1	2481	

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21710	52078	A	21838	2450	3963	LLTAPITGGIGTINVVCADDVMI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEVDVIRILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKAAPMVDS LIARVGVMARGNAITLPVCGRD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPSFL TGQQTPAFGQRVSGVKEIADGI RRRKAALTEASDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAKLPKSVV ALFHPGELSARSGDALQKAFT DKEDLLKQQASNLHGAEKSW GCYFEAEVITLLTSVLKTSSA SRTSLSSRHQFAPGATVLYKGD KMVLNLDERSVPTEYRYGVFL NVLLPATKYFQLHDP SLRNMEL NYSLASEDLVLKGLRVLLVEG NDPQGTASMYHGWVPDLHIHA EDTLLPFYLGEKDDVTYAIKPT CWPGLDIHPSCLALHRIETEYNG
21711	52079	A	21839	1573	2858	EPVFEQAIDQRSSTDTSSTPAA PMVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDL PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISQ*ICWKYFCAG*C GKYFRKIITRCINTAKLPKSVV ALFHPGELSARSGDALQKAFT DKEELLKQQASNLHEQKAGV ISPPEEVITLLTSEIKTSSASRTSL SSRHQFAPGATVLYKGDKMFIT VKIAKRSQAPCMKSNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFGRRPVLL ASLLGATIDYAIMATTPVLWIY PLVNSPSC
21712	52080	B	21840	63	368	
21713	52081	A	21841	189	204	SLPSGIKPOSSSKASSRIQVAPT M*SLPRQPLAWSPGHEACPQG
21714	52082	A	21842	153	370	LIAGAFRKASGGNNIFRRPKTL* LRRQPR*PQKSTPRRNKLGHYA IHKFPLTTESAVKKEETNTLVFT VLV

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21715	52083	A	21843	842	1770	CTPEKCLPAVHRRNWLRNAEPP VWKRHLSPICRKRQGRATKPK RRPWYTTPTTRRVRDVALRPYS RH/GRQPHAKKKIRMSLTFRRP KTLRLRRQPRYPRKSTPRRNKL GHYAIKFPLTTESAVKKIEENN TLVFTVDVKANKHQIRQAVKK LYDSVAKHTEERRHDEQNNIL TREAKNRNDNTRNRARTETNT ETQKNSGYQALISFHSYSDTS DNKAHLVSYQSGQCTYDRLG WNLLIRMTCRSLQHTYDIQSTQ IASCFHPVSVRVNRLRYCANYG GISAVFMPLRKELLILTRSSNSK VSQRLI
21716	52084	A	21844	353	605	EMAPKAKEAPAHPKAEAKAKA LKAKKAVLKGVRSHTRKKKIR MSLTFRRPKTLRLRRQPRYPRK STPRRNKLGHYAIKFPLTT
21717	52085	A	21845	301	946	PGSYLKPLSWTVALSRLPGFMS RWPCQRLTWQRRSVTQASGAS GASLCASRLPRDKTAPKAKEAP APPKAEAKAKALKPKKAVVER CPHTHAKKRIRMSPTFRRPKTL RLRRQPRYPRKSTPRRNKLGHY AIKFPLTTESAGKKNNKNNTP LVHCGC*RPTRHQIRQAVKK/L YDSVAVKVTTLICPDKEKKAY VRLAPDYDALDVANKIGII
21718	52086	B	21846	12	115	
21719	52087	A	21847	1397	1489	
21720	52088	A	21848	519	747	SGSVISPIAAT*YRIFAVL*SVQ* **AGPGDLSGDGELP*SVAIQPN VFIAVSSITCNWLPFGKCGSTY WMCQSM
21721	52089	A	21849	185	456	QHQPLeVASQWKVCSVSVKLL SQSSDVTRVPLEGLDRLSERSG SLSVL*SGILWALDAASQLVSL LP*LTRYHDP RVSSL/SSTYV*SP
21722	52090	A	21850	789	1086	

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21723	52091	A	21851	1	766	SGRKEANYYGSLTQAGTVSLG LDAEGQEVFVPFSAVLPMVAP NDLVFDGWDISSLNLAEMRR AKVLDWGLQEQLWPHMEALR P/LGLAVYIPEFIAANQSARA\D N\LIPGSRAQQLEQIRRDIFRS SAGLDKIVLWTANTERFCEVI PGLNDTAENLLRTIELGLEVSP\ STLFVAVASILGGLCLSFNGSPQ NTLVPGALELAWQHRILVGGD DFKSGQTKVKSVLVDFLIGSGL KTMSIVSYNHLGNNDGEN
21724	52092	A	21852	2	2122	WKSWMVFTAMKLVKAHRLK LRLKGYLPVTCLEGTRNQRIAA TIRHNRARGRHQITAMSEIVRE LSQLGWDDNKIGKELGMDSD VLRLKQINGLQELFADRQYSRA WTLKLAQAFSCCQRRFLLGK TETNQFMWEGIGAKHRQRNRR YAVLLRQPLAKLNIIQARYPNQ HRQHAGECNPHCQAGGDIVDR CPARCFTKGDSKDGSPQATWP FHNSATMTAKRLSEASQCGSK KSILRERHIYRPSITRYPFQSTMN HPLPEQTLGCIATDYGSSPSPDR SPGPAHYWTDHSTANIRYQV AAEENGEYTYVERVKIPLDHGT LLIMERATQADWQLEQIRRDIFR SSAGLDKIVLWTANTERFCEVI PGLNDTAENLLRTI/D/RSV WEVSPSTLFVAVASILEGCAFLN GSPQNTLVPGALELAWQHRVF VGGDDFKSGQTKVKSVLVDFLI GFRLQRP/SSIVSYNHLG\NNDG ENLSAPLQFRSKEVASRSNVVD DMVA\SNP\VLYTPGEEPDCV VIKYVPYVGDS*RAL\DEYTSEL MLGGTNTLV\HNTC\EDSL\A APIM\DLGAA*PSCCQRTFLA LDIGTPSRPFHPVLVPAQAFF KGATLSPPGKP/VLVNAAFSAS AAAIENILRACVGLPPQNHMLL EHKMERPGPSLKRVTWPLPP YPMLNKKGPGSRCQPMAPVD
21725	52093	A	21853	1	1908	
21726	52094	B	21854	1	1833	

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21727	52095	A	21855	1	749	MFQLMKASSGGEEAACMPAGL MENYKHTTVLLDEAVNGLNIR PDGIYIDGTFGRGLGEEGRLLA IDRDPQAIAV/AKTIDDPFRFSIH GPFSAIGEYVAERDLIGKIDGIL LDLGVSSPQLDDAERGFSFMRD GPLDMRMDPTRGQSAAEWLQT AEEADIAWVLKTYGEERFAKRI ARAIVERNREQPNPDEEEIEQA LKSSLNVLAPGGGVSIISFHSLE DRIVK/RFMREHQFCVVVRSGV GLKT*SVR
21728	52096	A	21856	532	1418	CFASGFIGELRKNIVGFIEQDHT RGLVFRLTPGRTLRAESLNLVIC LPMNFQPYDSDADWVITGVPF DMATSGRAGGRHGPAAIRQVS TNLAWEHNRFPWNFDMRERLN VVDCGDLVYAFGDAREMSEKL QAHAEKLLAAGKRMLSFGGDH FVTLP LLRAHAKHFGKMALVH FDAHTDTYANGCEFDHGTMFY TAPKEGLIDPNHSVQIGIRTEFD KDNGFTVLDACQVNDRSVDDV IAQVKQIVGDMP/VYLTLYNCG GPS*QFHSLRPAQSPLDRCRAR YLAPQCVPDFRTLQR
21729	52097	B	21857	64	1842	
21730	52098	A	21858	1	503	MRWLVSPIEDTGHKALLFACL ALHRACVSGHCLSPKCVGVDG RSHENVAPGLFLDWLLDGTGV WDGTSTNVEGAQEHAVLILLII TDGVISDMEETGMPWCRLPSCP CPSSSGRGQCGLRCHGVPGWG RRMLRSHTGEEAARDIVSSFPF ESSATMSEEVYDPRSLYERLQE QRTGSSRTARQEA VVGSKVTV SQPGHRQETT VLEHLVQY/FILL IITDGVISDMEE/TRHAVVQASK LPMSIII/VGVGNADFAAMEFLD GDA/GMLRSHTGEEAARDI/VQ FVPFREFRNNVRGGL*PSISI
21731	52099	A	21859	2223	2363	

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21732	52100	A	21860	3	693	GDDGKWMLVHRTEVIKYTLDP VWKPFTVPLVSLCDGDM EKPIQ VMCYDYDNDGGHDFIGEFQTS MSQMCEARDSVPLEFECINPK KQRKKKNYKNSGIIILRSCKINR DYSFLDYILG\GCQLHVSPLGID F\TASNG\DP LDPSSLHYINPMG TNEYLSAIWAVGQIIQDYDS DK MFPALGFGAQLPPDWKVSHEF AINFNPTNPFCSGVDGIAQA\YS TCLPHIRFYGPT
21733	52101	A	21861	1	2231	MYSQEGNQFCNRTDCQELLPPP PAPMAHIPSGGAPAAGAAPMG PQYCVCKVELSVSGQNLLDRD VTSKSDPFCVLFTENNGRWIEY DRTETAINN LNPAFSKKFVLDY HFEEVQKLKFALFDQDKSSMR LDEHDFLGQFSCSLGTIVSSKKI TRPLLLLNDKPAGKGLITIAAQE LSDNRVITLSLACRRLDKKDLF GKSDPFLEFYKPGDDGKWMLV HRTEVVIKYTLDPVWKPFTVPL VSLCDGDM EKPIQVMCYDYDN DGGHDFIGEFQTSVFKMCEAR DSVPLEFECINPKKQRKKKNYK NSGIIILRSCKVNQRGQARARG QVSGHTEGTDRA LDLEPARPVF KSRLCHILALWPSELHLTRPQSP HLWNGDINEAEHVQGYSSLTFL CGGQGRHELTFQGLSWWENCH CELLPPTVGMQGAEDIGWGHP VLSGISVTVTPMINRDYSFLDYI LGGCQLMFTVGIDFTASNGNPL DPSSLHYINPMGTNEYLSAIWA VGQIIQDYDRPRSFLKPDPWAG TEAVTGQHVMFVSVEYETHVEWG RQIGLPDVANQNTRHPVKFEFQ VSHEFAINFNPTNPFCSGVDGIA QAYSACLPHIRFYGPTNFSPIVN HVARFAAQATQQRATQYFILL IITDGVISDMEETRHA VVQASK LPMSIIIVGVGNADFAAMEFLD GDS PHAALPTRGRRQPRDIVQF
21734	52102	A	21862	694	825	QPGLSINIEAGAVPRPFARRYW GNLG*FLFLGVLR CFSSPGSPH
21735	52103	A	21863	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
21736	52104	B	21864	1	564	

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21737	52105	A	21865	43	617	PIIQKVRSHTPKRAPTACTYTVS GSFSLPSPGFFSPFPHGTGSLSVS QEYLALAEWSPHISARDCTCSG LLIELPSTGIFVYGAVTLYRAPF QTLPVTHALIQALGCSP\FARRY WGNLG*FLFLGVLRCSFSSPGSP H*PMDSVNDSVSKHT/EVSPFG N\PGYNGSYHLTDAYRRLARPS SPLTPGHPPLYG
21738	52106	A	21866	2969	3593	
21739	52107	A	21867	1219	1503	HFTDGQNNRQHGCQVRRQAG KQVVCKVEHQNQYNHRCVW* ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVPCAVIAG NVFPRHNQVQGGH
21740	52108	A	21868	193	378	
21741	52109	B	21869	1	1473	
21742	52110	A	21870	3536	3926	PKMVRWLARKCWNTVSTVRC FWMAMPTPVFAPCAAIKTASA R*MSWASSR*PNRGCVKSATLR QFS*VAAMK*PPVAQ*WWLGR NASTAGGDSGAGRSLDDGEPTP CGMGLEQKRHGNPAGCVAPSR WS
21743	52111	A	21871	140	901	MAMSKVKSITRESWILSTFPEW GSWLNEEIEQEQVAPGFTFMW WLGCTGIWLKSEGGTNVCVNL WCGTGKQSHGNPLMKQGQQM PPMAGVKKLQPNLRTTPFVLDP FAIRQIDAVLATHDHNDHIDVN VAAAVMQNCADDVPFIGPKTC VDSWIGWGVPKERCIVVKPGD VVQVTALEIHAPDAFDRTAPIT WLADQKRRRTVKG/MDDAPL* QVSYRPSTPPRCCYWSLLSSSV YYSKRPFAGHYARLCIPFMD
21744	52112	A	21872	287	392	
21745	52113	A	21873	1	492	
21746	52114	A	21874	569	1061	SGTVLDM/SEYSRVQIRKQPYLS KGYIPVRQKTKAAWLLKAVTFI DLTTLSGDDTSSNIQRLCYKAK YPIREDLLKALNMHDKVAAGF PAGQTHLKTREELRLAVEDGA TEIDVVINRSLVLTGQWEG/LYS PVVYSALPCNI*HSRLFLPSGNA LLLWLWCLHS

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21747	52115	A	21875	2	1072	ARSNIRMVTAFRSLPAGSSGAA RA\MSAHNRGTDLDSWISIKQ VNHPAVLARRAEQIQARRTVK KDWQAAWLLKAVTFIDLTTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGIT\TAAVCV\YP ARV\CDAVKGTSRPAG/CVNIPV GISRAAGF\PAG\QTH\LKTRLEE \RLA\VEDGSLQKIDV\VINRSLG A*QAQWE\ALYDEIRQF\RKAC GEA\HLKTLA\TGELGTLTNVY K\ASMIAMMAGSDFIKTSTGKE TVNATFPVAIVMLR\AIRDFFWK TGNKIGFKPAGGIRSAKDSLAW LSLVKEELGDEWLKPELFRIGA STLLSDIER\QIYHSCGLGRYGS LFMDLSQCL
21748	52116	A	21876	3	221	
21749	52117	B	21877	49	342	
21750	52118	A	21878	1	828	
21751	52119	A	21879	1362	2405	RPPWRHWDGNSSVLVHFQLHF LLRPLQTLSLGLEELLQRGIRA RLREHGISLAA\YGTIVSAELKG GSRPCA\WWPSEPGAGRCPGN SFSCGNSQC\VT\KNPECDQED CSDGSDEAHCECGLQPAWRMA GRIVGGMEASPGFEPWQASLRE NKEHFCGAAIIN/DQPLRS*NHR FQDPTK\WVAYVVRPTSAARRP APCGPSKKA/WISGWGYLK/EG LP*ASRPAMVKPEVLQKA/DW ELLDQALCASLYGHSL/TDRMV CAGYLDGKVDSCSVLFLFRGTI SFFFSEDRNLIRYVLLYSIFVVN CISGKPQPGPPVLRALCQHPHQI DAGPQYRASCWVTVPKLQGIF
21752	52120	A	21880	600	904	SVSLLDEETALPFSWDELRLSA LLDT*AAFQEIELAFQDPQCVG LLTAP/YADAAFGSTDIAMFLL VPILSARKPASPRSS*TFSHLATE PLPASIK*AAA
21753	52121	A	21881	393	572	
21754	52122	A	21882	165	432	PGMAVSYEKISKYPVEFLPAQA NIAGHNDAPEEREFPQW*LWLL LPNF*LQEKCSPTLCHFLSRRTQ SEFPSSTAAGNLSVSLLYPCKS
21755	52123	B	21883	1	1011	

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21756	52124	A	21884	783	1234	YYRRCGAASPHGRDPVQIG*TS SQPR*SA YRN/PASVIPVARHSA RAPAILRP*VVVAERSERSIPGL RATPAEIRTTAPSSAGVASSPE KPLIFTAIDSHTGSHWSDIIHVC AKKLQNYVPKLNASLLLTPSIY VTRTTRSGPIPPARQ
21757	52125	A	21885	249	398	GYFDIFS YDTAIPGQSAEQDAR ED*AF*MPDRAYSQPCSSLVFP KGCKK
21758	52126	A	21886	309	845	CGAREERGRGCHHVHSQLRGP GPAPGQVQQPQLVPAPVPELP GLRGLSWQARRTRARHRQGQV QDHQPDPTVHAQLRGVQLGEA PLQLHHGD*DHRAP*GYFDIFS YDTAIPGQSAEQDARED*AF*M PDRAYSQPCSSLVFPKGCPVPG RGCAAGVQAAGAAHPPLDHPA LQPLQGR
21759	52127	A	21887	1236	2100	DLLCGRGCQGRPRHLQPQTEL EAPEVPAERPGRGPAAARS DP RAQAEDVPGYNPLSGKPAKQQ VHEGHHPGAPGHRRPGGAAP AGGPHRCLPAQPARPCGGAAEP RGGPAGAH*ARGSRAAGEGQP WWPSRLGAGPPAAPVHAAPG SHLLPGHHLPTQPSALAAAQ\PL AEEPREQ/PGAGGPQPGSPTLRG VEVVPLPHAAGGAGAVPVGGA ACPTAPHPAASAPAVLLSQLG TQHPPRRDPPHCSCAGIQDSGW AGPPALWLLHVAKPAQARRP CALLHPGV
21760	52128	A	21888	1931	2185	AKAFSFFRYISRVS RNRTCLSRS SMRRSFDSSNADAAFSGSTDIA MFLLPILSARKPASPRSS*TFS HLATEPLPASIK*AAA
21761	52129	A	21889	1254	1760	
21762	52130	A	21890	1	2001	SIRRPKRARPIRIKKIPEQQG/PQ PAVLVPVQTVATRDRELPMQMP/P VGPETLKRDPVVRAMTIPATAA VYKPYWGATPLPIA\KPSPAG*Q *SRRFSKGYFGFD
21763	52131	A	21891	195	545	HSPGSFYSSRRDAQSPAPAIRAA V*AEVQ*TPLCHDRJTHFPEDW RGWQRS*F*PAACRVAGSLPVP VSPQIQHPYCRSSAQYLPCGAG LPLPGFDRLCPRSLFQGLAVTG GSCGPS

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21764	52132	A	21892	825	1299	YSCRTEHPPRLATAEYRHHQRA ADAGR*RHAGVAFYPIKERYR QPEPAFSYQ/PRRWSASRNRPS R*RMRRFPANSSTPFPPAPPLRR KRVASLIGGRMLRLTGAGIAEE RMIAPQLPECILHELTERPHFPF LGIDLILTCGERLLAIPRTTHVE
21765	52133	A	21893	1460	1810	RATHVLTWVRGTPKRAEMILG SSRSMASAAVTVLISPATAQRW ITRAP*PSPIRSPSVRLTATRPSS ITKARALSPMAAPALRSTVTTT PRITVEKPLLMEKIPRVPKSRAI SAL
21766	52134	A	21894	231	704	QSQKPDTRGRLFVAKAPPCVQR HKVRWLRLVMITSAHYLPLRR* *PAHPASGGCCPNRAKYTORPA E*ISYRPD*EAVR*SRAPAKVTQ SNPASRVALRRPAPRAVHQATII PVDESTLLPAPLAVSARQKVRQ AIPLRDSPVRRPTLDVRHRATG L
21767	52135	A	21895	1291	1925	RQLLRWSNR*IAR*SLTQPARRF PAYHYAHPAAAAAPGDPLGAD LQLCARHYHRQRHCVPRHAGY PRSDGLHPQPRGRWRIRCSACL RVPF
21768	52136	A	21896	1	445	MFISGLDDFFIDVVYVWRRIKR KLSVYRRYPRMSYRELYKPDE KPL/DDYGSGVE*NGRHRQYGR AGGDHARLRKLSYLCWHLRQR PRYSA*C*RSVRSLEPCA*GSLR ASWP/HPAKPTV*TTCWTPSPN LSVAPISLLLVLFCMTPKM
21769	52137	A	21897	79	377	SRKSGISIGAVKRPTH*GS*KAR SIC*NAAVSKKAESLSSFPEKS ESTQRVKAVLSS**ASQGCDDT AQYVLLSFKGSQQA*QVCGR* KAY**DLSRE
21770	52138	A	21898	1282	1535	GSTYEIASATPSPSAKPSNRSPSP MSRPQSNPKPNLSLHSC*P*GNL RSTPESGK*ATPPPPAYTLVLF KLANPQLPEESPWAF
21771	52139	A	21899	3775	4031	CRRTAASRTPRKRTQTAPTHAT NKPQKPQTSTDRGNRREPEKTE PS*HLRPNPQEPGRGQTQQEP APRHQPPKPQGEPTTPQKQ

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21772	52140	A	21900	1	2595	MESHTVTDYNFGRLLNESFAN CETDRNYLGIFKCGFWLSGTRK SAFLTKSQVTLTRPVDHTLRNE VLGSTKYQVPGYRRKTNTNLE ESNVLIGYDVAPGGGKQIDGKK AEGRELMVPVAGRPLCRSSSM ELLLLLPLHIPREQMLLADAYW NLHQSCQSKTSPDTAKCPLDRC PRVFKSQSYKASTFDGLSMDTE VIKSNGKQGWRQRRLANMKDI DKQTQAATFVLSQGMQRSGND RIILVTGASDGIGREAAMTYAR YGATVILLGRNEEKLQRVASHI NEETGRQPQWFILDLLTCTSEN CQQLAQRIAVNYPRLDGV LHN AGLLGDVCPMSEQNPQVWQD VMQLFRAGIINADPGAFFVTGF RRYCCFTLCCRSFRFGFYRRRF RHRSCRQRAMRHSGTGQGQGN EQCFNSVFHTVFSLFVNSGITLT AVKTVNKWQCSEMEKAAKAT FSCYSCNAFFCEAASGLLLFQRI ANFDFRLFTQVTHQSFKDDLGI KMETTKPSFQDVLEFVRLFRRK NKLQREIQDVEKKIRDNQKRVL LLDNLSDYIKPGMSVEAIQGIIA SMKGDYEDRVDDYIKNALSK ERRDISKKLKAMGEMKNGEAN RKERSMFRDRPLKRMKSKRD DDSYDEDVEDDEGVGEVRVHR VNHAPANAQEHEAARPSQHQ YQPPYASAPRQPVPQPPEAQV
21773	52141	A	21901	1	96	
21774	52142	A	21902	105	430	ASIFVMLVRGAEPMEKRQQRG LFTVPGLLLAFCSHVLSNVNPLI PVDNPPYPPSELIPAPPQNDR AQRVSERGSGRAPNTQTASPR LADSLMQLAR/QVSRLESGQ

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21775	52143	A	21903	843	2055	HHRMAQNLSRYGNDKRPEESQ FRVVNVKPVTLYDVAEYAGVS YQTVSRVVNQASHVS\AKTREK \VEAAMAELNYIPNRVAQQLAG KQSLIGVATSSLALH\APSQIV AAIKSRADQLGASVVVSMVFR SGLVACHTAPHNLL\ARKRGPA GLIINYPLDD\QDAIAVEA\ACT NVPALFLDVSDQTP\INSIIFSHE DGTRLGVEHL\VALGH\QQI\AL LAGPLSSVS\ARLRLAG\WHNFL TGM\QIQPIA\ER\EGDWSAMSGF QQTLQMLNEGIVPHWRLLVAQ RSRMALG\AMRRHYPESGLRV GADILRVGGNTTIPED\SSCYIP AL*PPIKQDFRLLGA/QTSVDR\L LQLSQGQAVKGM\QLLPVSL\V KRKTTL\APNTQTA\SPRALPRF H*MQLA\RQVSRLESGQ
21776	52144	A	21904	1	1201	
21777	52145	A	21905	1	492	
21778	52146	A	21906	646	934	
21779	52147	A	21907	1	1713	MLCTKWDKLGLKKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVS\HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTKPYLSWVDTGFSLYL HAYGTYGSANRVN\FLDDMFL AGFGFQF*PAGGW/WGSNPFFA K\RYTRSKPYT\GDNGYV\AG WVAGYNFMLGSEKFTLTNWN EYEFDRDATYAADFLPLYDVD CQDNGNLEYDTYSQPEWKHNL FDHYLA\VL\YRFKDESGKEQFSG AVVKTREATPGKEIEAITRML DFSPRLKKLADCPSPRPVFEALC ICSMLDALLLLCPLDYHASCDN YSYALLDPQGFPLPHRRLWGPY IDVDVPMLHLIQHAWAQDALL SCLYSDLLYMSSFPYPAGTLTR LMGVTSYNHKNTLLTYCITLMS TIRFAYDGDDEEIAMKYTDFLKG ELSMNIRPLHDRVIVKRKEVET KSAGGIVLTGSASAKSTRGEVL AVGNRILENGEVKPLDVKIGD IVFFNDGYRGEI
21780	52148	A	21908	2060	2404	
21781	52149	B	21909	1	1377	

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21782	52150	A	21910	52	1719	IGQVVVDVDTCTFTRIHLVFNFD NDTGSIHVLNDTTTFSYRSYTG VNGNSTFHTSTNQRLISAQSRN GLTLHVRTHQCTVGVVVFQERD QGRTDGYHLLGGYVHVNLV AAEQAGFAFATASYQVFYEVA FFIQVGVRLGDNVVAFFDSRQV VNFVSYNTVGHFTIRSLKEAVF VSLCVHGQRVDQTDVRTFRGF DWTDATVVSRYVVSNEACTF TGQTAWAECGDTTFVRNLRQR VVLVHKLRQLAGTEELFHCCG SQDPQQPWGWNLRVNPLAQT GHAHEAQRKQWHKGNEEADD PEPERAFTPGFVQFETERFRPPV GHPCEAAEDHAADDHVMEVR NQEQAVMQNEVRARYGQQHA SHPAHREGDDKTDGPQHRME HDAALIHGEQPVEDLHPGRDG DNHCGDTKEGVYVRARTHRKE VVQPNDERQHGD TDGCPYQRG ITKQFTTREGCRNFGEHTENRQ DQDVNFRVAPGPNQVDVHHH VATHIVGKEMGAQIAIQGQHAT YRQNGKDL*SNRGVASGNPQC RHRAHRRATDCQTVIKQPVFFG

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21783	52151	A	21911	608	2508	YITATSCSGWMIRWCAKAAKCA/CSRGPGGKLR RHKGAEETL CGNTRVLIAPQLPAVIAATLSGS RSQTGRREGPTPTTVMIQDHTG SSTDDECSANVQRIFNRIMLC SI VSRPRTIPFHDLAQSFRQFRNVK CLWCAFEQAQLMRIQPAIVMV KTIHRERLNSGQFRCHQEARNI PPHRQSRFLASRGLLAELMFML YGIGELPEIVTLPKEIRGNVDNS RHAVFLANSMPPELRFIRTHGS RFTSQDCTLFNWLARIITPVLQS WLNDEEQQVALRLLEKDRDHH RVLVDITNAVLSHLDDLDDLIAD VAREIHFFGLASVSMVLGDHR KNEKFSLWCSDLSASHCACLP R CMPGESVLLTQTLQTRQPTLTH RADDLFLWQRP LLLLLLASNG CESALLIPLTFGNHTPGALLAH TSSTLFSEENCQLLQHIADRIAI AVGNADAWRSMTDLQESLQQ ENHQLSEQLLSNLIGIDIYQSQ AMEDLLQQVDIVAKSDSTVLIC GETGTGKEVIARAIHQLSPRRD KPLVKINCAIPASLLESELF GH DKGAFTGAINTHRGRFEIADGG TLFLDEIGDLPLELQPKLLRVLQ EREIERLGGSR TIPVNV RVIAAT NRDLWQMVEDRGVI
21784	52152	A	21912	147	2699	MTIRAICSCCPLPDA*NVLM* IY MSTFQASGNGQQLQIARIVIQNI TG
21785	52153	A	21913	432	1016	FCPSSCLAATAPAA*AGWSFLP SPAEQNRWRFPLSRFCQIPAPL/ LGTLIISLSVFCSILAASAAEIPG SVDGIYNKSPSLI\WVKIPRQLY *AAREPSAPKAPPPAAWFSASA VLSATA\MINTNQKAIERVTAFR RNFATDPVAHQDRDHYDRQQR RTRHRIRFGERQRAKQTPFLPFQ GEDRDKRQRDNQQTDK

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21786	52154	A	21914	1	1146	MTTSM LN A K L L P S A P S A A V V V V R V V V V V G N A P T S R K V G P E E K D W S M A S S G T T S T R K R F T G A E F I V H F L E Q / P G H * D C D R H S G / S / C S I L P V Y D A L S Q S T Q I R H I L A R H E Q G A G F I A Q G M A R T D G K P A V C M A C S G P G A T N L V T A I A D A R L D S I P L I C I T G Q V P A S M I G T D A F Q E V D T Y G I S I P I T K H N Y L V R H I E E L P Q V M S D A F R I A Q S G R P G P V W I D I P K D E Q T A V F E I E T Q P A M A E K A A A P A F S E E S I R D A A M I N A A K R P V L Y L G G G V I N A N A R V R E L A E K A Q L P T T M T L M A L G M L P K A H P L S L G M L G M H G V R S T N Y I L Q E A D L L I V L E L A G V Q T V D T D V N A S K P A S A T R H I A F Q T V T I G C D R N L A D S V V F P H S V D D I G K V A A
21787	52155	A	21915	1001	1037	M V G M A S S C M P A F T R L E L Y S V I S Q S T Q I R H / I L A R H E Q G A G F I A Q G M A / R T D G K P A V C M A C S G P G / A T N L V T A I A D A R L D S I P / L I C I T G Q V P A S M I G T D A / F Q E V D T Y G I / S T M T L M A L G M L P K A H / A L S L G M L G M H G V R S T N Y F C Q E A D L S I V L G A L F D A G Q I G K T S S F C P N A K I / I H V D I D R A E / R E F P C P I P K A C D L L S H / Y G L I N A V A A C V D D N A I I T T D V G Q H Q M W T A Q A Y P L N R P R Q W L T S G G L G T M G F G L P A A I G A A L A N P D R K V L C F S G D G S L M M N I Q * M I I A I P T G V K I F N W C S P C I R P H R V P F C D A V A I G F I V T F S D V I Q I A S I Y E I P C R D P T G V A S T E Y S S S S C R R R R N T T L C D P G S P A Q R Q S P Q A G Q N P S C P A H R R S A T G V G D
21788	52156	A	21916	135	449	
21789	52157	A	21917	5	214	
21790	52158	A	21918	2	337	I G I A K H A Q Q L L L N V M Q T R A V G A E V Q T V S A T G S A V R Q A L A N N L Q P F A I F F Q I N A / W * * R A G R Y P D D H G I S P E T A L Y G W H T S A T G T A G M R * S V R P W L Q S G Q G C S G W R R Q Q P R W S P
21791	52159	A	21919	1	774	

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21792	52160	A	21920	2	914	RHIRTPAHLERFIVDIALNVADG HRAKLIVQSAGTFAQTVLRADS SANFRQGVGLVRQFRFRKNTPL VGELQPV RDVVVYRAFPLAVW VAARQAAVSLRFGLAFGKRLV NFNKLN FADLQRFLWRINAAQ LSCATTT/ADPAVLLHHWTSV* PAQI*WR\S*PVRQNLFTALRAG MLHMLGDKTTQMLFMDRQSV NA*DLDQFRVNAFAEIAAFIEN VSETAGHARTEVNAGFTQNAD DTTRHIFTTVVANAFYHGDSTG VTHAETFTRAACGIQTTTGRAI QAGVADNACFMAAEGGTNRR TNGD
21793	52161	A	21921	204	371	PGPAGAQSAALYRWSPGQAVS RADWFRFADC*IYPENRRNAGS AYRPRLSPAYCG
21794	52162	A	21922	2664	2970	TPDTAPAGCRSRAPDGPSPRQ MPRRRG*FHTARYCRTPRAITA *R*TE*STCPARTGEWYAHARY APGTSRQTATMPPTMPRRRASS YSSTQPDGRRQNC
21795	52163	A	21923	318	459	
21796	52164	A	21924	577	888	TNSSNQQLAEGNRERLIGRNTA GPERITAGRRL*LFSCQNRPCGW RFNKCHIGMPVVVIWRIIVMGI QHDDLVPFGMRVNRVNMQF AKTLGQRALLLRNSLIA
21797	52165	A	21925	3	711	AGAHSGPSHPALATTAARQSV AGNRSGISGFSGHSRNPTRMSA RCL*SSALERLMRRLNGGEIQI SDVTTTTPS\LPQVYCSAMSRN LCTRATPRWQSAGHPYCRWTA SYCAIYSDRSIRGNYSTQSFAS GRRVPTGSWQKTESEKDCSTC CANWANDRTPLPTSTSSANCST NVQTSVVPVLRRWIWLTSLRV VLTVSLKSVCARGTSPQASCWF VKRAASSATSPVVITTC
21798	52166	A	21926	244	535	TRYPDDHGISPETALYGWHTSA TG TAGMR*SVRPWLQSGQGCS GWRRQQPRWSP**RSC**CSVY PATL*FCRLYNQTSGPGHSDLP AFPDSDRRKI

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21799	52167	A	21927	869	2923	PKKDLKIATSAMMEAAYSV*SR TLFW/SPVRDSQVTDQTQWQGL MSQLRLQGFDLVLQWTRYGD AFTQPEQRTLLFKRAAAQA GLKLIVGLNADPEFFMHQKQSS AALESYLNRLAADLQQARLW SAAPGITPDGWYISAEIDDLNW RSEARQPLLTWLNNAQRLISD VSAKPVISSFFAGNMSPDGYR QLLEHVKATGVNVWVQDGSG VDKLTAEQRERYLQASADCHD GAAPHGK\VFKLIIA*RARR
21800	52168	B	21928	72	690	
21801	52169	A	21929	1	2241	
21802	52170	A	21930	1607	1893	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLKTRPAFFQLLIK HVD/SMCHQRLSGSRKSKHNVI AVVFSYCSVSFASCPHQVL LQTQYF
21803	52171	A	21931	1	3960	
21804	52172	A	21932	1	1281	
21805	52173	A	21933	1	1491	
21806	52174	A	21934	1	1254	
21807	52175	A	21935	1	723	
21808	52176	A	21936	740	880	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSSLKTRPGFFPTVN
21809	52177	A	21937	1	1191	
21810	52178	A	21938	1033	1248	
21811	52179	A	21939	1	1425	
21812	52180	A	21940	1	2784	
21813	52181	A	21941	676	1467	
21814	52182	B	21942	1	3288	

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21815	52183	A	21943	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETA VINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAELFDY TSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
21816	52184	A	21944	1790	2947	TDFSVRCKGCRTGPFLRLIFQDR IVGVELIAVF*NTGPRFSSCRLS WRRPFDKTCRMRWHQRLSGFP QEONDGKQQPILC
21817	52185	A	21945	1	888	
21818	52186	A	21946	252	1863	RKNPFILH*LFR*TLRQTKPDDS AGKGVKI**HTQNQRSGRSQND F*RRLW
21819	52187	B	21947	1	1794	

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21820	52188	A	21948	138	341	PNPRGLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*RVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGLLELL KAAASLVFLEQHKPYEEIGTSF GSVLVSVVGEGPFVEEDLRKSF PGRWDKKHKMFDAIEEPKKDS DKFDANDPILKDQTQEWGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELK YDYTLKKVMKAADHFQTPVTD EIERANVFKMNG
21821	52189	A	21949	761	916	NKRIFPSHVKVAEPDHSCV*SFR IGSLASNLSSLKTRPAFFQLSIE LSPT
21822	52190	A	21950	1	1437	
21823	52191	B	21951	50	1690	
21824	52192	B	21952	1	1032	
21825	52193	B	21953	1	1974	
21826	52194	A	21954	878	1202	SVYNKRIFPSDVKVAEPDHSCV *SFRIGSLASNLSSLKTRPAFFQ LSIE\FRRPFDKTCRLMCHQRLS GFPHEQTQRDSTCIQLLFRQRF AAASCPHQVLLQTQYF
21827	52195	B	21955	7	1702	
21828	52196	A	21956	527	665	NKRIFPSDVKVAEPDHSCV*SFR IGSLAFNLSSLALKTPARVFSTVD
21829	52197	A	21957	469	687	
21830	52198	A	21958	2	1018	EGSDSRAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGRVFKDSD KFDANDPILKDQTQEWGSGATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGRKTYQNGQQFIDEG NIPPATPYAERPYYFEDKGLKY LGKPTVEPSVCGGRLESPWQTA GVSPTVQKLKSLKFDVARGQES VWEKDEAALANWTPNHTCD NLKTCHTLHGSMVMAETAVFNP KKLKNSPRIVQSNHLI
21831	52199	B	21959	7	1113	
21832	52200	B	21960	1	1188	

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21833	52201	B	21961	1	1414	
21834	52202	B	21962	1	1515	
21835	52203	A	21963	1652	1916	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RR
21836	52204	A	21964	1	1353	
21837	52205	A	21965	1	1507	MAAQDAMVTRTSSQTDCKEPG LKWAGVVLMLLLCWLMFQVL WEACQKKTGEHKTMLQMILCN KSYQQLRLVITPMYMLGDLW SKNCGQNSTPSLGDNPPTQTQ EWSGSAFTSDGKIRLFYTDYS GKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQ NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQSSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPLMLRLAIETVAH*P AEK*HQNHSPPF*PRFFAVSLRT GSSYHCILSSH
21838	52206	A	21966	729	843	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLLINM
21839	52207	B	21967	1	1416	
21840	52208	A	21968	1	1794	
21841	52209	B	21969	1	1171	
21842	52210	A	21970	1108	1250	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGGASRVP K
21843	52211	A	21971	1	2535	
21844	52212	A	21972	743	898	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLSIE LSAT
21845	52213	B	21973	1	1605	
21846	52214	B	21974	1	1873	
21847	52215	B	21975	1	2946	
21848	52216	A	21976	1419	1498	
21849	52217	A	21977	1	2314	
21850	52218	A	21978	1	1215	

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21851	52219	A	21979	1	1851	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRERTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVA\KYVEIF\GLPFAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAPSPS KGLYSVHINPYLIPFFIGLQNRL TQFRLSETKEIPNPYAM/RLYTN TLCQYRKPDGSGIVSLKIDWIE RYQLPQSYQRVWTPGINCPEPC PGVWTPGINCPGAWGIHGPFGS AENTGPLHPGQTS AQLETSLP SLRSARELELAQLSPRRKQNR LQNGVTPSLRVPWPKASNVQQ FIDEGNYTSGDNHTLRDPHYVE DKGHKYLVEANTGTENGYQG EESLFNKAYYGGGTNFFRKESQ KLQQS AKKRDAELANGALGIE LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLF TDSR
21852	52220	A	21980	3197	5376	
21853	52221	A	21981	543	5690	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RRWSRSY
21854	52222	A	21982	2241	2614	ETLTTLKTKAINTLYSKPTREQ KTDTKAKNLYLTKRTTAAART SSVKKAISFNRA LKNAMLS*RT APSVS*IRHRV*NL TMRSSSSA PSPWML*A*AWLCRYCRASCGI SSIPTASPV TMAACC
21855	52223	A	21983	31	892	
21856	52224	A	21984	548	855	
21857	52225	B	21985	1	1825	

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21858	52226	A	21986	1	3146	MEWGKFKRLVLP SQGKSKPEQ RCQYRHTVGDQATLPLRSRVE KRNGEAEGR IYRKLWDVALLC CVQEVINGERKPLRALTEVKSG FRLREDSDFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQN VQQFIDE GNYTSGDNHTLRDPHYVEDKG HKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELN NDYTLKKVMKPLITSNTCDN
21859	52227	A	21987	1	3107	MNEMKREEKFREKR RERNEQI LQEIRDYVKRSNLHLIGVSKSD GENGTELENTLQDHIQENFPNLA RQANIQEIQRMLQRYSSRRTT PRHIVRFTKVEMKEKMLRAAR EKGRVTHKGKPIRLTADLSAET LQATKEWRPIFNILKEKNFQPRI SYPAKLSFISEGETKYFTDKQM LRDFVTTRPALKELLKEALNME RNNRLVKSLAWASQNGFRSPA LLPLSLMLCAPLQEADGTNLG WLAHCGLLCTGDH
21860	52228	B	21988	239	2825	
21861	52229	A	21989	7533	11119	
21862	52230	A	21990	1	3718	MEVIPEGYRLSELKKCSKWIVV MVARLYEYTKNQIIHLKWVN HMLGCLLDRNDPLRDVDEAAV PVLICCSADDPVCGPPDHTLTTE LFHSNPYFFLLLSRHGGHCGFL RQEPLPAWSHEVILESFALTEF FRTEERIKGLSRHRASFLGGRRR GGALQRREVSSSNLEEIFNWK RSYTRLMAAAAGAAAAPGSRE PQDRPECGAGHPGPRYYRHPER WLLRPEAFLGPLRTRAPSAEDS QRRERPAARSGPEM
21863	52231	A	21991	1	697	
21864	52232	A	21992	1	978	

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21865	52233	A	21993	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG\LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIERYQLPQS YQRMDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGNSVLRK

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21866	52234	A	21994	1184	2229	RSSVATVALLHAVINHK/KRKN SPRIVQSN DLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIERY QLPQSYQRMPPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THIFFDMLRDLLKNVDLKGFEF DVRILLTKYSNSNGSQSPWMEE QIRDAWGSMVLKNVVRETDEV GKDTSLSTPAAPMVDSLARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGAVSQ GGESFIYMPLTGAAFLSEMP PERRNLKKQCGYSGFAACGYQ SQERKNSPRIVQSN DLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQHDGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPEEDAGDEKGYESFPWFIKRA HSPSRGLYSVHINPYLIPFFIGLQ NRFTQFRLSETKEITNPYAMRL YESLCQYRKPDGSGIVSLKIDWI IERYQLPQSYQRMPPDFRRRFLQ DHNSSPEREQNWMEFDELT EVGFRRWVITNSELKEHVLTQ CKEAKNLDKRLQELLTRISNLE NIDDLMEKNTAQELHETYTSI
21867	52235	A	21995	82	325	
21868	52236	B	21996	220	1173	
21869	52237	A	21997	1	1599	
21870	52238	A	21998	188	421	
21871	52239	A	21999	1	596	MGMTDMGKSKKKSQGPPSFPP GGAPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETA VINHKKRKN SPRIVQSN DLTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPFTQM GQD
21872	52240	A	22000	1	1527	
21873	52241	A	22001	2	870	

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21874	52242	A	22002	1	4304	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPD
21875	52243	A	22003	740	1159	SLPNLDNSAICSSSSSPTTR*SL SVSAAALRRRLPSAISMTPTDL RPNAGVC*PVSRKEGMRSSSAS SVSSWSRSLPDHTREVSTLSP RSTSRVNFTSRPHTGKVMALPR AITPTRAINESTIETAGEDNEVSS TG
21876	52244	A	22004	664	1844	SGNLKACHPSHGSVMAETA\VI NHKKRKNSPRIEQ*KDGYQQA YLSLRDQKRMLYLFVDQIRKSD GTLQEHDG\CQIHGAQYR*QIS D*PFAEASKDIRQALKSFAGKE VVFYRPEEDAGDEKGYESFPW FIKRAHSPSRGLFSGHIPP\YLIPF FIGVKNRLTQ\RLFETKEIPHS ALARYYESLGQDRK\PDGSSIGS LK\IDWIIERYQLPQSYQRMPDF RRRFLQHFLAHAGCPKGTQNT FRMKFIIFSIIKKVLPVDTILAH PVIHTCHLRESFGSVSPSPKSN RLPCPEVILFHYGESWNLLRAD QRLIFAKSWPRASRYQQGHQD LFILRSDLPSQVFIRDKLMERRN RRTGRTEKARIWGSDDGQNGQE PGYVEAGCPPLLLTV
21877	52245	A	22005	3	272	
21878	52246	A	22006	1	528	
21879	52247	A	22007	461	831	LLNLATWRYLGTLTRGTAS\VA VAGILAAALRITNNKLSNHVVF QGAGEAAMGIAHLLVMALRRK K\GTERTTATRKIWMVDSK\GLI CQGEGSHLN\HHEKEMFAQDH PEVNSLEEVVRLVKPTAM

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21880	52248	A	22008	3	1894	EGEDRGLPRTMGAALGTGTRL APWPGRACGALPRWTPTAPAQ GCHSKPGPARPVPLKKRGYDV TRNPHLNKGMFTLEERLQLGI HGLIPPCFLSQDVQLLRIMRY ERQQSDLDKYIILMTLQDRNEK LFYRVLTSDVEKFMPIVYTPTV GLACQHYGLTFRRPRGLFITIHD KGHLATMLNSWPEDNIKAVVV TDGERILGLGDLGCYGMGIPVG KLALYTACGGVNPQQCLPVLL DVGTTNEELLRDPL\YIGLKHQ RVHGKAYDDLDEFMQAVTD KFGINCL\QFEDFANANAFRL NKYRNKYCMFNDDIQGTASVA VAGILAA LRITNNKLSNHVVF QGAGEAAMGV\AHLLVMALE\K EGVPK\A\EATRKIWMVDF\KGL IVKGRSHLNHEKEMFAQD\HPE SNSLDEVVRLVKPTAIGVAAIA EA\FTEQILRNMAFRRAPIIFA LSNPPRKAECTA\EKCYRVTEG PRGFFASGKSFLRSVDL/ESMGK TFIPGGRGNNA*RVPRGWQLG VHSPGGDPGHIP\DEIFLPDSRA KLPQEVSEQHL\SQGRLYP\PLS T\IRDVSLRIA\KVL DYAYKHNL V\SYYPEPKDKEAFCKIPGSYTP DYDSFYT/VDSYIWAQ GKAMN
21881	52249	A	22009	322	567	
21882	52250	C	22010	338	603	
21883	52251	A	22011	127	417	
21884	52252	A	22012	253	424	
21885	52253	A	22013	124	1235	YLCLLPKGQGDRLSRTSQWP QMSQSQACGGSEQIPGIDIQLN RKYHTTRKLSTTKRFTACWR KKVGAF TKIIEAMGFTGPLKYS KWEDLRLRALRIVY*LCGRKLD FEGFFSK\CS\MPDTFNSWFLINP YFHVWMCLVRMKQEGRSGKY MCRIIVHFMWEDVQQRGRVM GVNPIYILKKNMILMTNHFYA\A ILGYDEGILSDDHGLAAALWK NLL\NRKCEDPRHLELLVEYVR KQIQYLD S\MNGEDLLLTGEVS WRPLVEKNPQSILKPHSPTYND RGTFDGLGPPHGPPAGFRGTSR EEKCLVGPRT PARKWPELDLLN KHL SKYLAPICVEFPLSPQESD LLGYRAWENPLALPGCPSSLRG

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21886	52254	A	22014	282	435	GGGASPAACSGSPDSSHSATA GTGCRRPARPPPAPPTPTPWSR RQQGSRAS
21887	52255	A	22015	3	399	IVALPFGHHHSQTSPLPNLLQTA ACLLHFLLLSGVETGRPGPWQ PRIRARGPPAPPGPAPPAKPRRR /GCRGPAREACWYGCRPPARPP PAPPTPTHGAAGSREAERASEL/ C*GARPLRLGSAGT\IMVSACVP
21888	52256	A	22016	279	872	KIPIISLSLKLQGASSKIPTPQNP HLSPGTRKRDSSFQWLSAFIIT GQCCSYIVRWGLWKPRLLVV KKYAALSAEMLLVKVEEPSA ACSGSPDSSSFCNCW*PAAAGR L/ASAAQRPPTPNAHKRSRQQG SRASERAS/CKGRGRYGLGALG GRGGRALGGSRWPPPLPGETLF SGCKHRRRRRGSDAAPGEEAG
21889	52257	A	22017	106	398	NAAPFSRHAAFQGSWAVCIFR LPAERALRFPASCLVLPGPS GVAPHGWPLPTTAPLLQGVW RVEVGEHEMAEIFSSAKKEAAG ALQRPCIPVW

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21890	52258	A	22018	1	1806	MRGNTAGGPGDEKPDSTHPPW EGTLQEAQEMKKVVRFMWTS GGPDPQHWRGSGLYGQLVAQ MLHIDVAQVYMDSWWPRCST LAWLRFIWTAGGPDAPHWLRS GLGGQLVAWMLHVGVAQVYV DSWWPSCSASMWLSFMEHKQ CLTLGYEVALFLQHFLSRAFLV VWVPRKEKAQVLRQGLSLTFR ENPGVCVMSSYRPWLITAAAD MQPSKPGGTGSYCSYWSPTDN TPRLAAACTWNLGSSHGSAPG VRTFIEAGFSPFLAPKALATL SDSDSRWGNPNVYAQPQP/PEP AWGNPNV*GQPQPRNRPQ\PEP CVCSTPTAEPPWGNPNVSTPTA EPAWGNPNVYA/PTPTAEPPWG PNPV*GQPQP/REPAWGNPNVY GQPQPRNRPQS\PPQGNLYCSA ALGATDPSQSWHQCSQNLLPA DKGAKREAPW/PRPPSGEVDHQ VWHLHGWPLPTTAPLLQGVW RVEQTPASHHRQPRPRQSSPST KAPPVITVNQGPASHHRQPRPR QSSPSTKAPPVITVNQGPASHH RQPRPRQSSPST/TGPASHHRQP RPRQSSPSTKAPPVITVNQGPAS HHRQPRPRQSSPSTKAPPVITVN QGPASHHRQPRPRQSSPSTKAP PVITVNQGPASHHRQPRPRQSSP STKAPPVITVNQGPASHHRQPR PRQSSTLTKAPPVITVNQSPASH

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21891	52259	A	22019	27	1367	RILAGPARAEAGSASDRSTGHL FPRGVGMDLCHPQPAELSSGET DELPRI*WHRKQLLEDIQKLKD EIADVFAQIDCFESAGDSRMAH KENELCIGRKKFNMDPRQGRW LWRARATGCGGCMGAPAWFL SGEGLNKTAIGTYLGER*ERVE P*RGRK*RCAGVYRCVDVQAL R*VVLGQGPQPQGWHSPSGWG CRDPRYCLCNPGVFQSTGARRG VGPRAPGPLQHCQA*ISQTRPPF ERFVSMNRRGINNGSDLPEDQLR VREAQPTQPGPGESRRDLSLDG WPFNPDREGWLLKLGERPTD TRRRTHTHARAGTHRCMHTTV SRVLLGLPLPPPLPAQPTSQ/PPT SRC/LRLQDPE/CWSHWEIS*TE RGESRVVEGKHESYRISATSAE ERDQWIESIR*GVPRSGDGFSP SRRPCFFWVLRDSWRWHWGL VTLRVPSAAPGDP
21892	52260	A	22020	140	356	
21893	52261	A	22021	2	1147	APARGPAVASGSPGPAAEPVQ NTETAAMTTHVTLEDALSND LLEELPLPDQQPCIEPPSSIMYQ ANFDTNFEDRNAFVTGIARYIE QATVHSSMNEMLEEGHEYAV MLYTWRSCSRAIPQVKCNEQP NRVEIYEKTVEVLEPEVTKLMK FMYFQRKAIERFCSEVKRLCHA ERRKDFVSEAYLLTLGKFINMF AVLDELKNMKCSVKNDHSAY KRAAQFLRKMA DPQSIQESQNL SMFLANHNRTQCLHQQLEVIP GYEELLADIVNICVDYYENKM YLTPSEKHMLLKVMGFGLYLM DGNVSNYKLD AKKRINLSKID KFFK/HAAGGAPFRRHADRAQ IH*DQCSL*REQVQVDVHPEQH QPPVQYLRADGSDPG

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21894	52262	A	22022	47	1581	ALVLMYLASSICMSPKRGTTCSCLERGSRCPPTSEPPPPPEPPPGRS SRCRPGLGPGYGGGGEKMADDP SAADRNVEIWKIKKLIKSLAA RGNGTSMISLIIPPKDQISRVAK MLADEFGTASNIKS RVNRLSVL GAITSVQQRLKLYNKVPPNGLV VYCGTIVTEEGKEKKVNIDFEP FKPINTSLYLCDNKFHTEALTA LLSDDRQVWDFIVIGG/SVGALF GHTPKGNTRGGPWHKFTVGIFP K\KHG*EGGQ\SALRFARLRME KRHNYVRKVAETA VQLFISGD KVN VAGLVLAGSADFKTELSQ SDMFDQRLQSKVLKLVDISYG GENGFNQAIELSTEVL SNVKFIQ EKKLIGRYFDEISQ/DLTGKYCF GVEDTLKALEMGAVEN\LIVYE NL\DIMRYVLHCQGT\KEEKILY LTPEQEK\DKSPFH\DKETGQEL ELIESMPLLEWFANNYKKFGA\ TLEMFTDKSQKGSPV**KDLGG IGG\ILRYQSRFPGEWNTKKET MNFLTLMTTR
21895	52263	A	22023	1	296	VEDERV CAGPA WERQAGQERP ARKVQGKAPEAEGKHGCLLDI LVCTYLAEKGLSGSCGLTEALV AFGEGSSLGRKNCRDPWGLSR QEPHWSDP/WSGPPERCKGKPQ RRRGSTDAFWTSWSART*PRRG SLAAVG*QRHWWPLGRAAV*E ERTAETPGAPSGRSLTGQTLGS LHV
21896	52264	A	22024	5	309	LPDADLFCPACGAAAGRARS GMRPVFAVSVARTPSPR/PPPAE PQFPRLPCGSIGSPFFRDIDTIQK FPDMLSSFFFRDIDTIQKFPDML VFNCCCLLNQSR
21897	52265	A	22025	1	258	RGRSRIARSASGPRPALVRPPAR PPAP*TPRSWSCWSSC*PRSASA TGSPSA*ATDAHADSSKAMLPE PTSSISKFSTLQTVPFRL
21898	52266	A	22026	119	692	PSSHVSRTATYSSLRQSAVSTRT STTTTLAFMARAGGRAGGRAR VGGRTPSGQCGCPACGAAAGR ARSAGMRPVFAVSVARTPSPR/ PPPAEPQFRRPQR/GAPAPSGG GASLPAPRALASSIPAQLMKPG RAKGSAGNLHPG\EGRPGARRS DPAGAARSLACP*IWPQKTPSP LASSSSFFLSETPECAH

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21899	52267	A	22027	2	246	
21900	52268	A	22028	1	927	
21901	52269	A	22029	251	1077	VTMGKVLAVSSLPAGPPPPVP ALVGLPPPP*HPGFRLPPLGGG LGARTSVGRGLERTPGAATASA AGGAEDGACRCLPNPCTFECH RKCKEL*MEGVKFTENKAL/SS KMAIQTQQSKFVKWQVDGEYR GSDFTVDVTLWNPVLMGSG! LVAHYLKSITPCLALGSELVYH RRPGEETVMSVAGKYTLNNW LATVDVEFEASTRMQDTNVSF GYQLDLPKANLLFKGSVDSNW IVGATLEKKLPPLPLTLALGAFL NHRKNKLRSFGFLTIS
21902	52270	A	22030	1	1171	GGSGFGCAWRTGWERSPGRE QAPPPATMGNVLAASSPPAGPP PPPAPALVGLPPPPSPPGFTLPP LGGSLGAGTSTSRSSERTPGAA TASASGAAEDGACGCLPNPGTF EECHRKCKELFPIQMEGVKLT NKGLSNHFQVNHTVALSTIGES NYHFGVTYVGTQQLSPTEAFPV LVGDMDNSGSLNAQVIHQGLP GLRSKMAIQTQQSKFVNWQVD GEYRGSDFTAAVTLGNPDVLV GSGILVAHYLQSITPCLALGGEL VYHRRPGEETVMSLAGKYTL NNWLATVTLGQAGMHATYYH KASDQLQVGVEFEASTRMQDT SVSFGYQLDLPKANLLFKGSVD SNWIVGATLEKKLPPLPLTLAL GAFLNHRKNKFQCGFLTIG
21903	52271	A	22031	14	434	CYCQGILSPPPCPPFLGSAQTS AICSWVRGVPAESSTSSFPKAP* VALESRGEAPTLHLPVTSRFLQ CVSSEQECVPWKP/HSSPRPRFL DISPSPTCVRL*APGPVPFDPHQ KTWRSPLGTRAQGVGPRDRDS CRIVPG

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21904	52272	A	22032	989	1859	VYGDSRWSLALSPRLECSGA\IS AH*NLCLPGSSDSPASRITGISG ARHHAQLI/L/YVFLVEMRFHH VGQAGLKLLTSGNP/HHLGLPK CWDYSRKPPPPRPPI\FSFFFL RWSLALVAQAGMQWDDLSSL QPLPPGFK*FSCLSLLSWDYD CPPRLANFVCVCVCLV/VDG GFTMLARLGLELLTSGDLPPFG LPKCLGFTGMSHCARPIFFFE MESCFATQAGVQWCDLSSLQP LPPRFK*FSCLSLLSWDYRHM PPCLANF/CFGIFSRDRVSSCW GRSQTPDLK
21905	52273	A	22033	157	376	SHQDFMRTAANLLQTGWCTGS NTGAGARWGLCRASLRCRCA APSAPCSGSRCS*RSWKGTHPS LPPRCRGRS
21906	52274	A	22034	298	399	
21907	52275	A	22035	1	185	
21908	52276	A	22036	311	516	WKAERRTRHLLQTGWCTGSNT GAGARWGLCRASLRCRCAAP SAPRSGSRCS*RLWKGTHPSLPP RCR
21909	52277	A	22037	1	1487	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCGGAKSQGCSR ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTQ NCRNNEEVTCLICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVCVQYLEVR LYALSDAEDGRGHPLMASVIHL LWRLQTSQIHYSYNEEKDEDH CSSQWAHLPANRDCSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQEGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LG/REPGEHPASPLPPDDAQHA HPAAQRKQRPAPQFRHAGPHS DGTAPDWPQL

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21910	52278	A	22038	263	375	AGPRRMRRISAWAVSTPLTDSP SPGHQPA/GEVAGAGSF**HPP/P PCPSRYCPQMTPPPPPPAPPPAL PPPPPPAPASPLPPAPSPPPHAP PQALPPPPALPPPPASPLLP LSPPLAPP/PPSAPPASPPAPPP PPAPPPSPPPAPPPSAPSSAPLPP APASPPASPPPPAPPPAPHPPSP PAPPCPLPRPRGPSVPQEKVHQ V*IPVP/PAGEGGPAPGRIWPQG WRRAGKPPTWEEALAAFPPWT ALPPASAVPAQPPRAH*VAPAL *WALHRRSDSDSDSSNLSPRIPG TGGQRRQPR*DS*APACSEVAG AGSF
21911	52279	A	22039	1	2001	
21912	52280	A	22040	1846	7725	PEPFCHRAAHWSNQYCPFQFQ DTDSPRQTLTVLIKDNGEPSLST TATLTVSVTEDSPEARAEFPGS APREQKKNLTFYLLLSLILASV GFVVTAFGVIIFKVYKWKQSRD LYRAPVSSLYRTPGSLHADAV RGGLMSPHLYHQVYLTDSRR SDPLLKKPGAASPLASRQNTLR SCDPVFYRQVLGAESAPPGQIR YPVPEESQEGTFVGNVAQDFLL DTDSL SARRLQVAGEVNQRHF RVDLDSGALLIKNP
21913	52281	A	22041	108	340	PQPSQVMSFHGDSGSCRRWAT AGT*ATSPPCSSIFLRRMHSGH WCSCWPVRGTPCRDFTAQMAG PSRGSKTNRSMW
21914	52282	A	22042	275	752	EKTHKTCRCGRGCGKRGTL*H CWWEENLLQPLWKMVWVKWL KELKVELLCDLA/VPL/LGINPEE KKSLEYEKDTCT/R/LFMAAQLAI AKKWNQPKCPSINKWLQKLW YIYMMEYSAIKRNLTAFAAT WMRLETILSQGDPLESTCSRSQ ANRQEITSVPKA
21915	52283	A	22043	25	202	DAEAWAMELADVGA*ASSQG APQPEEPAASLGVNEKGGAGG RSGRRPLGRDRPRPTRLL

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21916	52284	A	22044	1	2290	MEKLGVEPEEEGGGDDDEEDAE AWAMELADVGAASSQGAPQ PEEPAASLGVNEKGVHDQVLPT PNASSRVIVHVDLDCFYAQVE MISNPELKDKPLGVQQKYL VV TCNYEARKLGVKKLMNVRDA KEKCPQLVLVNGEDLTRYREM SYKVTELLEEFSPVVERLGFDE NFVDLTEMVEKRLQQQLQSDDEL SAVTVSGHVYNNQSNLLDVLH IRLLVGSQIAAEMREAMYNQL GLTGCAGVASNKLLAKLVSGV FKPNQQT VLLPESCQH LIHSLN HIKEIPGIGYKTAKCLEALGINS VRDLQTFSPKILEKELGISVAQR IQKLSFGEDNSPVILSGPPQSFSE EDSFKKCSSEVEAKNKIEELLAS LLNRVCQDGRKPHTVRLIIRRY SSEKHYGRESRQCHIPSHVIQKL GTGNYDVMPPMVDILMKLFRN MVNVKMPFRLTLLSMCFCSLK AVNTATTRLIDYYLMPTISITSR SGKHSFKMKDTHMEDFPKDKE TNRDFLPSGRIESTRTRESPLDT TNFSKEKDINEFPLCSLPEGVDQ EVFKQLPVDIQEEILSGKSREKF QGKGSVSCPLHASRGVLSFFSK KQM QDIPINPRDHLSSSKQVSS VSPCEPGTSGFNSSSSSYMSSQK DYSYYLDNRLKDERISQGPKEP QGFHFT\NSNPA\VSFAHS\FPNL QSEQLFSRNHTTDSHKQTV\AT
21917	52285	A	22045	2	141	
21918	52286	C	22046	278	489	
21919	52287	A	22047	130	426	

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21920	52288	A	22048	357	1579	QRRPRPFPSQGISMTECFLPPTSS PSEHRRVEHGSLTRTPSSEEIS PTKFPGLYRTGEPSPPHDILHEP S*SNGLMDEKDHGKKKGNFKK KEKRTEGYAAFQEDSSGDEAE KLMPRFEEAYGRTTETEKVQEF QRLLKELPEGNYLLISLFVVHM DHVITKELEAKMNIQNIYIVVSP TVQISNLVLYVFFTHVQELFGN VVLKQVTKTRRWSNVATMPTL PETQAGFKKEIRIQELLLNCLHQ DLQGGIKDLSEEERLWEEKEL TKQEELLGMEQFLRRQIASEKE EIECLRAETAIEIQSHQQQGLSET EEYSSSESESEDEEELQIILEDLQR QNEELEIKNNHLNQAIHEESEA VIEPRMQPWLLQLQPDRAKQQ AQEDEEPEWRGGAMQTPKNGI
21921	52289	A	22049	182	2212	VTEKTSSLPSQGISMTECFLPPT SSPSEHRR\VEHG\SAGLTPGPPA SEEIQPLPKFPGLY\RTGEPHP P*HPSHEPSLM*CPDDEKDHGK KKGKFKKKEKRTEGYAAFQED SSGDEAESPSKMKR\SKGIHVFK KPSFSKK\REKDFKIKEKPKEEK HKEEKHKEEKHKEKKSKDLTA ADVVKQWKEKKKKKKPIQEPE VPQIDVPNLKPIFGIPLADAV TMMYDGIRLPV\FRECIDYVEK YGMKCEGIYRVSGIKSVDELK AA YDREESTNLEDYEPNTVASL LKQYLRDLPENLLTKELMPRFE EACGRTTETEKVQEFQRLKEL PECNYLLISWLIVHMDHVIAKE LETKMNIQNIIVLSPTVQISNR VLYVFFTHVQELFGNVVLKQV MKPLRWSNMATMPTLPETQAG IKEEIRRQEFLNCLHRDLQGGI KDLSKEERLWEVQRILTALKRK LREAKRQECETKIAQEIASLSKE DVSKEEMNENEEVINILLAQEN EILTEQEELLAMEQFLRRQIASE KEEIERLRAEIAEIQSRQQHGRS ETEEYSSSESESEDEEELQIILE DLQRQNEELEIKNNHLNQAIHE EREAIHEL RVQLRLQMQRACA EQQAQEDEEPEWRGGAVQPPR DGVLEPKAAKEQPKAGKEPAK
21922	52290	B	22050	34	322	

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21923	52291	A	22051	137	1546	QMLGGRPPPRWLQLAKARALA RRRPPPSLHLTLPTALSLKS/RTP VPKSIPISETPNIPPVSQPPASIG PPLGVPP/PEPSHGDDQPRGP\PL PIFMEQQIMQQIRPPFIRGPP\PM PPTPTAPCPTPCFPASGPRPVAP ETWAPLPAPCTGPCY\PPHPPPE/ PPPP/SPGNPPGLLPPPPGAPLPS LPFPVSMMPNGMPVPQMMN FGLPSLAPLVPPPTLLVPYPVIV PLPVPIPIPIPIPSATPSPTGSP ATGRTSFRTPLATPRRRAASQA DTPCPPGTSPRARPSRTRPPAA RARP*AWRPRPPSMAGARWWT *RGAPA\PPGPPGRGRPARLPRR AAGPAGRRHRPDRGPPSPAQR DPPRAA/PRTSRRSASRAPRSAG PAAAAGTATAARPPPATQARA PRRAPRRRPATSS*TARAAPPP/ SGAKSAEPPPEQPPPPPPAPPK KLLSPEEPAVMRARVGQGE
21924	52292	A	22052	762	2049	RSSFSMGADLLACST/SGLGNM PYDLLRGMEPTLGCSFEDLAL A*PGGITQE\KINEMRVAPEQQ MI\ADIHFMIAGQDLWDWAQ GATLLHIAGANGYLRAAELLDD HGVRVDVKDWDGWEPLHAAA FWGQM\QMAELLVSHGAN\LNA RTSMDEMPIDLCEEEEFKVLLL ELK\HKH\DVIMKSQLRHKSSLS RRTSHRQAS/SVGKVVRRTQPV GTGPNL\YRKEYE/GEEAILWQR SA\AEDQRTSTYNGDIRE\RTD QENKDPNPRLEK\PVLLSEFPTK IPRGELDMPVENGLRAPVSAYQ YALANGDVWK\VHEVPDYSMA YGNPGVADATPPWSSYKEQSP QTLLELKRQRAAAKLLSHPFSL THLGSSMARTGESSEGGAPLI GGRTSPYSSNGTSVYYTVTSGD PPLLKFKAPIEEMEEKVHGCCR
21925	52293	A	22053	2	306	SKEAFAIGLGGGSASGKTTVAR MIIEALDVPWVLLSMDSFYK/ NAFDFDLIISTLKKLKQGKSVK APIYDFTTSLRKMDWKTLYGA NVIIFEGIMAFADKTL
21926	52294	A	22054	2	379	

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21927	52295	A	22055	352	1227	GDVSPQLSPRQKSGPLCTSCCA WPVCSPHSDAQPSGEGGLWE KTPFLSVPHRFVPRAALASAHQ CHPLPRTL SVLKSTPQVRGMHT IIRDKETSRDEFIFYSKRLMRLLI EHALSFLPFQDCVVQTPQGQDA *RITGVSILRAGETMEPALRAVC KDVRIGTILIQTNQLTGEPELHY LRLPKDISDDHVILMDCTVSTG AAAMMAVRVLLDHDVPEDKIF LL\SLMAEMGVH\SVAYAFPR VKKSSPRRWDKAGQLTFFRIIP GIGNFGDRYFGTDAVPDGSDEE EVAYTG
21928	52296	A	22056	72	2746	FLVETGLHHVQGAGLKLTSN DPPASASQSTGITGMSHHAQPR QSSYVPPMSLPASAMPVEGVG GDALWAGHASGYLGGGQLWA TSEYIPLCSSNAESLDRLLPPVG TGRSPRKRTTRQCKSEPPLRTS KRTIYTAGRPPWYNEHGTQSKE AFAIVPVEQEKEAGQPQAAAA GWAPLGPICAGSLPVPHRGSPL PPAGLGGGSASGKTTVARMIE ALDVPWGGSSLSMDSFYKVLT EQQQEQAAHNNCNFDHPDAFD FDLIISTLKKLKHGKSVKVPIYD FTTHSRKKDWKTLYGANVIFE GIMAFADKTLLEGPGPAPCTGP EDSIIRHIAAPSLHKASSRANYC VLSMGTDPKLATSPIPQCVGAS YPKQRCPEVALARPTDQAAS VQGLVPVSPCPLLASGHSLARC LHQLLDMKIFVDTDSDIRLVRR LRRDISERGRDIEGVIKQYNKFV KPSFDQYIQPTMRLADIVVPRG SGNTVGHPR*LLQHVSQLEEV SGVPRPHGLAPSPSTHFSAAATP SWPVHLIPLRSLSPASSSSQPAQ LCQQELGNCSKKLGLGRGRIPL SLPKGRHAGGAALASAHQCHP LPRTL SVLKSTPQVRGMHTIIR DKETSRDEFIFYSKRLMRLLEH ALSFLPFQDCVVQTPQGQDYA GKCYAGKQITGVSILRAGETME PALRAVCKDVRIGTILIQTNQLT
21929	52297	A	22057	61	341	
21930	52298	A	22058	1	1086	
21931	52299	A	22059	1	498	
21932	52300	A	22060	104	3395	
21933	52301	A	22061	1	1653	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21934	52302	A	22062	1	1717	
21935	52303	A	22063	172	13375	EDLFKCIMAHAAASQLKKNRDL EINAE EEPKRRKHKRKS RDRK KKSDANASYLRAARAGHLEKA LDYIKNGVDINICNQNGLNALH LASKEGHVEVVSELLQREANV DAATKKGNTALHIASLAGQAE VVKVLVTNGANVNAQSQNGFT PLYMAAQENHLEVVKFLLDNG ASQSLATEDGFTPLAVALQQGH DQVVSLLENDTKGKVRLPAL HIAARKDDTKAAALLQNDNN ADVESKSGFTPLHIAAHYGN I
21936	52304	A	22064	1	360	
21937	52305	A	22065	1	2577	
21938	52306	B	22066	323	3154	
21939	52307	A	22067	93	791	IRMSYAEKPDEITKDEWMEKL NNLHVQRADMNRLIMNYLVTE GFKEAAEKFRMESGIEPSVDLE TLDERIKIREIDT*KGQIQEAIRL *FNSLHPEL/LWDTNRYLYFHF ASNSILIPS*FRQ\GKTRGRRWG VAQTQLAD\RGESRECLTEME RTLALLAFDSPEESPFGDLLHT MQRQKVWSEVNQAVLDYENR ESTPKLAKLLKLLLWAQNELD QKKVKYPKMTDLSKGGD
21940	52308	A	22068	171	426	
21941	52309	A	22069	5	655	LLQPSVQLPNGTANTSLSFAAV SAVSPPPCRTSTATTLPPPMPSF FCVFPSPSMSPSPSEFLSCIASVS RVHSLSSSSSGSSSTASSLNFSAI MGSSSATASWVLSTTSTPPCPS ALPSSPAQES*SLAASSSAWLSE HPSFSSFTLSWASGAFCDEVSL FSGSKLSFLSSKGDGIPFI*TSA CPSSLDFSPCFSSSTSKSSSYSEI GKSPQPI

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21942	52310	A	22070	87	1180	NQASLEVLPSVPDSDPSIPSLPP/ SDNPNRNFSAAPVSCLPSPLPVA ASWSPDPSSCSCPSPEVFRSRAP GVPTPASVVYVTVISSAAGTSSP LRANSSTTTFPAAAVFPTNSSC WCQVSSSATSEKEEALFAIVFSS AVSEPANTSLSSAAVSAVSPPPC RTSTATTLPMPSPFFCVFPSPS MSPSPSEFLSCIASVSRVHSLSSS SSGSSSTASSLNFSAIMGSSSAT ASWVLSTTSTPPCPSALPSSPAQ ES*SLAASSSAWPVAGISPSGAC TFPAGSASGAAKAPSPSWRCPS FRALFSLLDSSSLSLCSVSLASL SLSPPPSFLRAVMFPATFKSRRC FKYGNHCLFSDLLWLEVCAL
21943	52311	A	22071	841	1052	IGEVLLDNVLKSVF*LGSVLPIT SLKLLP/SGSKRDPKMSHSH AG*VTTGAFPRCGRWRLQPAA PPPPS
21944	52312	A	22072	817	866	HANPVSPPTSWPKE*SWP*CSG **RTFQSVSFAGGRRRGSWLKP PPATAWKSSSCHLPSGVRMAHF CRIPFGPRGRDFADFGTTIKQDF RLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQT ASPRALADSLMQLARQVSRLES GQ
21945	52313	A	22073	2	3238	TTFPAAAVFPTNSSCWCQVSSS ATSEKEEALFAIVFSSAVSEPAN TSLSSAAVSAVSPPPCARTSTATT LPPPMPSFFCVFPSPSPSPSEF LSCIASVSRVHSLSSSSSGSSSTA SSLNFSAIMGSSSATASWVLSTT STPPCPSALPSSPAQES*SLAASS SAWPVAGISPSGACTFPAGSAS GAAKAPSPSWRCPSFRALFSL DSSSLSLCSVSLASLSLSPPPSFL RAVMFSSDFSNGVASNMGTT VSF
21946	52314	C	22074	88	4374	
21947	52315	A	22075	73	616	VKESLTQKSKRFQNKLINRRG WERPRSGASWTQRRALGGRGC VDRWLGI/WPHRIPGARLRGFP ALNPTPQTAPSPSPDPRPRPP/CP SDPGPRTEAQCSL\PPPP\PSPRH LDPGPEPTPLTQGGQKGTRAP RPRCPRSQK*ATSGPAVRRREA RGSASLRTRAPSRDSTHAGIQG NVALQP

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21948	52316	A	22076	1	421	GTVMGLPKYFISLSTKFPLSFS LSADELHIASLFLWPRSKPFGVI QRSCASQLNALPEVLKNPGDPD KMLRFAESPRNLPAGVL/GDIW TDGKGSVSLQEQQVYHFPLIRPT PGS*ARASFLSCG*EEFRRHGLT FSSTRE
21949	52317	B	22077	211	2041	
21950	52318	A	22078	200	1525	IMASAHLATSAFCTRSSSSGRSG SCKRGSWDSEQALIRAWTTLPS SLHAADGSFAGGRGIPSKRWS WRAGQQSSLCLIMQTSSNCGNS FQLVSEGASWRGLPHCSAELQ DSLNFSYHPSGLSLSVRPSSPGN SPKEQPFQVLRPEPPDPEKLPV PPAPPSKRHCRSLSVVDLSRW QPVWRPAPSKLWTPIKHRGSGG GGGPQVPHQSPPKRVSSLRFLT SSQCLFSMCPSSQTLQPSFLQPG PGP\SSSRPCAASPQSGSWESDA ESLSPCPPQRRFSLSPSLGPQAS RFLPSARSSPASSPELPLAT*G/L SATFPESRSQPCDL DARKTGVK RRHEEDPRRLRPSLDFDKMNQ KPYSGGLCLQETAREGSSISPP WFMACSPPLSASCSP TGGSSQ VLSESEKEEEGAVRWGRQALS KRTL CQRDFGDL DLNLIEEN
21951	52319	A	22079	1	117	
21952	52320	A	22080	3	632	
21953	52321	A	22081	1	448	MQSETETVHLFIPALSVGAIIGK QGQHIKQLSRFAGASIKIAPAEA PDAKVRMVIITGPPEAQFKAQG RIYGKIKEENFVSPKEEVKLEA HIRVPSFAAGRVIGKGGKTAST\
						*QNLCSGMKGKALKAKPSTYN CVGCGWSPRPRCSLN

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21954	52322	A	22082	233	2096	RREDEGNKTSWIHPSPWVVLIF RFFSLFFFFKQPLFTMNKLYIGNL SENAAPS\DLKSIFKDAKIPVSG PFLVKTGYAFVDCP\DESWA\LR AIKAFSGKIELHGKPIEVEHSVP KRQRIRKLQIRNIPPHLQWEVL DSLLVQYGVVESCEQVNTDSET AVVNVTYSSKDQARQALDK/L LDKLNGFQLENFTLKVA YIPDE MATQQNPFLQPRGRRGLGQRG S\SRQGSPPSVSKQKPCDSPLRL LVPTQFVGAIIGKEGATIRNITK QTQSKIDVHRKENAGAAEKSIT IPSTPEGTSAACKSILEIMHKEA QDIKFTEEIPLKILAHNNFVGRLI GKEGRNLKKIEQD\TDKITISPL QELTLYNPERTITVKGNVETCA KAEEEIMKKIRESYENDIASMN LQAHLPGLNLNALGLFPPTSG MPPPTSGPPSAMTPPSPQSEQSE SETVHLFIPALSVRALISKQGQH IKQLSRFAGASSKIAPVEAPDAK VRMVMIAGSPEARFKAQGRIY GKIKEENFVSPKEEVKLEAHIR VPSFAAGRVIGKGGKT\NELQ NLSSAEVVVPRDQTPDENDQV VVKITGHFYACQVAQRKI*EFL TQVRQHQQQKALQSGPPQSRR

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21955	52323	A	22083	8	1675	TASCRLAMALHVPKAPGFAQM LKEGAKHFSGLEEA VYRNIQAC KELAQTTTRTAYGPKGMNKMVI NHLEKLFVTNDAATILRELEVQ HPAAKMIVMASHMQEQEVGD GTNFVLVFAGALLELA EELLRI GLSVSEVIEGYEIA CRKAHEILP NLVCCSAKNLRDIDEVSSLLRT SIMSKQYGNEVFLAKLIAQAC\ YLFFLIP AISMLITSEFVK/FLGS GISSSSVLHGMVFKKETEGDVT SVKDAKIAVYSCFPDGMITETK GTVLIKTA EELMNFSKGEENLM DAQVKAIADTGANVVVTGGKV ADMALHYANKYNIMLVRLNSK WDLRRLCKTVGATALPRLTPP VLEEMGHCD SVYLSEVGDTQV VVFKEKEDGAISTIVLRGSTD NLMDDIERAVDDGVNTFKVLT RDKRLVPGGGATEIELAKQITS YGETCPGLEQYAIKKFAEAFE IPRALAENSGVKANEVISKLYA VHQEGNK NVGLDIEAEVPAVK DMLEAGILD TYLGKYWAIKLA TNAAVTVLRVDQIIMAKPAGGP KPPSGK*NWLN FYCR
21956	52324	A	22084	175	278	

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21957	52325	A	22085	208	1976	GPSPLKEHFSGLEETAYM\NILT CMELAQTTTRTAYGPNGMNKM VINHLEKLLVTNDAATILRELE VQHPAAKMIVMASHMQEQEV\ GDGTNFVLVFAGSFPVNYLKN L\WRIGLSVSEVIEGYEACRKA HEILPNLVC\CSAKNLRDIDEVS SLLRTS\IMSKQYGLMKVFLAK PYLLQACRIYFSWIPAISMLITSE FVK/FLGSGIRSS*VLAGMVFK KET\EGDVT SVKDAK\AVYS\C PFDGHG*QET*GEQCLDKRTAL KDLDGIFR*GEQENLHG/AATSP KAIADTGANVVVTGGKVADM ALHYANKYNIMLVRLNSKM/W DLRRLCKTVGATALPRILTSL SLKEMGHCD\SVYLSEVGDTQ\ VVVFKHEKEDGAISTIVLARGST DN/L*LDDIER\AVDDGVNTFQ GSLQDKRLVP\GGGSNRNLN* PKQITSYGET\CPGLEQYA/ILK KFA*GHLKAIPPAHWQKYSGE NSGVKAQWK*SPKLYAVHQEG \NKNV\GLDIEAEVP/SLVKDML EAGIPRYLTGKYWAIPLATNA AVTVLRVDQHTLV*FFMQIIM AKPAG/GGPKPPKWGRKTWGD DQNGLKIGFNFYCR
21958	52326	A	22086	1	346	PF*CTPSCLWAF*TARSAQTWS APSTRSWCSEWPKSLPSPTWLR *FRKVSSYSWSQSWSSTASTD SSRPPHSLGASCHPGHQRSLMP PSR*RATSTAYASLSSSHRPNTQ PSPS
21959	52327	A	22087	3	484	RSSQPRVGLCGKSLQP/SSEGSC HLQGWCSFPRS VSSIMAEA*RT *PRVSSSMHGRGPTQNREATKK ASSSETSV/QVTAQEAQAEPGA AGVAG/SPASAPQDSAGACWPA QVL*GGSDRSCRGSHPGNTEPP SVLRTGTAPGA*G/SSPFSPTTQS GSCCFPFSS
21960	52328	B	22088	181	359	

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21961	52329	A	22089	290	2014	STCTPLPTASSQSRPHPPPTPTPP APWRSSNGQVPTLT*PGSTLPP G/SGKSPV/VASGGPARAKPHRA VHVSPAPSGGSPGDVAELPAAV AVRA*QAGSGQRLPAPVCVGE MGTLCPGEPADVHQVVCGLSE PRAPHRPGQPQARAHGVPSGQS LCPAQPG*DDS/AKVSSYSWSQ SWSSPTASTDSSRPPHSLGASCH PGHQ RSLMPPSR*RATSTAWRA RTASTPRCLGPRPAPWSCASLSS SHRPNTQPSPTSVRRLATP SSHGWALAPWTPMAPTQPTTW TRWGKTVSGRQMNTWRRPWS TCARYSGSAKRSSGSSHSPWAP PRMRMEKSNSTASWVRTDSS LRPWGGTRSSMGCEGLKLSTR GTRSCSPSGAMRSPAWSAHLG CRLPSTTDLQDRWRLCVPGMT SSAASVATTSQLGWPAATC*A LWGGGRWPATPAA\QAQPALP GQLPTRWSRCCWPSSWPLCSAS GPSHARCCSPWAMSSTPLP*HC *PSGGSCSPEGVSCLOSRLEGF ATQPHPWAERTWEAPPGNTV ILGLLREGSCSRRIWRKRNQE RKAGRAPAKE
21962	52330	A	22090	363	487	
21963	52331	A	22091	234	282	
21964	52332	A	22092	742	990	
21965	52333	A	22093	1	206	LFPAFSDSRECKLMKKLLEA/H EEQNVD\SYTEA\VKEYDSIFPG WTQWLTTL\LLRIKKTIQG\DEK DLR
21966	52334	A	22094	128	1062	KPFEAAMYNSGKEAEAMALLA EAER\KVKNSQSFFSGLFGSS KIEEACEVIYARAANMFKMAKN WSAAGNAFCQAAQLHLQLQSK HDAATCFVDAGNAF\KKADPQ GGPFNCFDCVAFEIYITDMGR\F TIAAKHHISIC*DLLRQKLVDIE KAIA\HYRALADYYQGEESNS\S ANKCLLKVAGYA\ALLEQYQK\ AIDIYEQGWGPNNAHWTSPPPSK Y\SAKDYFFKAALCHFCMDML QA\KLAFQKYEELEFPVFSDSRE CKLMKK\LLKA\HGEQNVD\SY TE\SVKGITDSISRL\DQWL\TTH CLRI\KKTIRGD
21967	52335	A	22095	1	1038	

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21968	52336	A	22096	20	2482	RVCSSSASTASQAVMADAWEE IRRLAADFQRAQFAEATQRLSE RNCIEIVNRLIAQKQLEVVHTL DGKEYITPAQISKEMRDELHVR GGRVNIVDLQQVINVDLIHIEN RIGDIIKSEKHVQLVLGQLIDEN YL\DRVGQEVNDKLQESGQVTI SELCKTYDLPGNFLTQALTQRL AIIIGHIDL DNRGVIFTEAFVAR HRARIRGLFSAITRPTAVNSLIS KYGFQEQLLYSVLDELVNSGRL RGTVVGGRQDKAVFVPDIYSR TQSTWVDSFFRQNGYLEFDALS RLGIPDAVSYIKKRYKTTQLLFL KAACVGQGLVDQVEASVEEAI SSGTWVDIAPLLPTSLSVEDAAI LLQQVMRAFSKQASTVVFSDT VVVSEKFINDCTELFREL MHQ KAEKEMKNNPVHLITEEDLKQI STLESVSTSKKDKKDERRRKAT EGSGSMRGGGGGNAREYKIKK VKKKGRKDDSDDESQSSHTG KKKPEISFMFQDEIEDFLRKHIQ DAPEEFISELAEYLIKPLNKTYL EVVRSVFMSTTSASGTGRKRT IKDLQE\EVSNLYNNIRLFGKRG WKFF\ADDTQGWLLPKHLLEV QCVLISLNL\FNFLGFGILMDG Q*DDPGRPFTSELKELSKLS EETKVALTKLHNSLNEKSIEDFI FC\DSAAEACDIMVKRGDKKR ERQILFQHRQALAEQLKVTEDP
21969	52337	A	22097	1	711	VLSLFDGIATGYLVLKELGIKV GKYVASEVCEESIAVGTVKHEG NIKYVNDVRNITKKNIEEWGPF DLVIGGSPCNDLSNVNPARKGL YEGTGRLFFEFYHLLNYSRPKE GDDRPFWMFENVVAMKVG KRDISRFLCNPVMIDAIKVSAA HRARYFWGNLPGMNRPVIASK NDKLELQDCLEYNRIA\RIFGFP VHYTDVSNMGRGARQKLLGRS WSVPVIRHLFAPLKDYFAC

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21970	52338	A	22098	406	2885	GRGILVNGACSDQSSDSPPILEA IRTPEIRGGWAVGTGVVSGADI VSGHCRQWSLLSLFQGSGLSL AFITWAFRETRTRSESPAVSSHT SSQSTCGQHST*HT*HARGRQG RNVHDESPVEFPATRVGSPDAQ TPARSL*LGDMPHSLTIDLTTDDT EDTHGTPQSSSTPYARLAQDSQ QGGMESPPQVEADSGDGSSEY QVDGREGLPRV/I*GP*TRGKTS YAMVYSWKATSKRQAMSGMR WVQWFGDGKFSEVSPGKGKGF CRPEAVPACLPLNKLVSRYKA MYHALEVTWDEGMRAKP*EQ G*SKRPTELEDQLKPMLEWAH GGFKPTGIEGLKPNNTQPGGNE SPWQHPLPLLVGPLLGRVRLKT NCYNNKGKDRGDEDQSRGDCW VPGIMGQMGGGRCSGIDVIPL TPWLGL*ACLVQCQTCRVSPPTT ALDLPPLASSNSPLLPCGRELL LCSNTSCCR*ALGPVGWMWVG PQGSYVPAV*EPWSCYMCLPQ RCHGVLRRRKDOWNVRLQAFFT SDTGLEYVSHRLPPLPPQIPGAQ GVGKLWFDGIATGEFGEHLETL LSCHNRVARESEESIAVGTVKH EGNIKYVNDVRNITKKNVRV CTLRASSLPVFFPSPHPNPARK GLYGEHPSLWQSLESCHLTTG PGAGNK/RGLGWRFGMNPALS SFLSTGVQRDISRFLEVRESGD
21971	52339	A	22099	729	896	

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21972	52340	A	22100	1	2672	MAYKQGFLKVMVHFRKAEVT GKNHTSVHEGYTLISPAAQVLT ISCKKSILLQEQVSFKDVCVDFT QEEWYLLDPAQKILYRDVILEN YSNLVSVGYCITKP\EVIFKI/ES KGEEPW\VLEKGIPQAQCPPQK RKWKV/EMNVVREQPRKMKM TIFGEPIPTTNKTVSVENGDRG SKTFNLGTDPVSLIKLSL*NM*L \SEMNLKNISGLIITKKNC SRKK PDEFNVCEKLLDIRHEKIPIGE KSYKYDQKRNAINYHQDLSQP SFGQSFEYSKNGQGFHDEAAFF TNKRSQIGETVCKYNECGRTFI ESLKLNISQRPHLEMEPYGCSIC GKSFCMNLRFQHQALTKDNP YEYNEYGEIFCDNSAFIIHQGAY TRKILREYKVSDKTWEKSALLK HQIVHMGGKSYDYNENGSNFS KKSHLTQLRRAHTGEKTFECGE CGKTFWEKSNLTQHQRTHTGE KP\L*CTEC\GKAFCQKPHLTNH QRTHTGEKPYECKQCGKTF CV KSNLTEHQRTHTGEKPYECNA CGKSFCCHRSALTVHQRTHTGE KPFICNECGKSFCVKSNIIVHQR THTGEKPYKCNCEGKTFCEKSA LTKHQRTHTGEKPYECNACGK TFSQRSVLTKYQFIHTRVKAL* TS*MLEAFIHL/SKLVIQFQKRRS EKAKECQKFVE\KTSCLNM*KL SRKIKTFH*KICKLTVKNKG NK
21973	52341	A	22101	1	2817	

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21974	52342	A	22102	474	2766	NQTALYNQAQLLHGSRFANMS AEGYQYRALYDYKKEREEDID LHLGDILTVNKGSLVALGFSDG QEARPEEIGWLNNGYNETTGERG DFPGTYVEYIGRKKISPPTPKPR PPRPLPVAPGSSKTEADVEQQA LTLPDLAEQFAPPDIAPLLIKL VEAIEKKGLECSTLYRTQSSSNL AELRQLLDCTPSVDLEMIDVH VLADAFKRYLLDLPNPVIPA YSEMISLAPEVQSSEYIQLLKK LIRSPSIPHQYWLTLQYLLKHFF KLSQTSSKNLLNARVLSEIFSPM LFRFSAASSDNTENLIKVIEILIS TEWNERQPAPALPPKPPKPTTV ANNGMNNNMSLQNAEWYWG DISREEVNEKLRDS\ADGTFLV RDASTKMHGDYTLTLRKGNN KLIKIFHRDGKYGFSDPLTFSSV VELINHYRNESLAQYNPKLDVK LLYPVSKYQQDQVVKEDNIEA VGKKLHEYNTQFQEK\$REYDR LY\EEYTRTSQEIQMKRPAIEAF NETIKIFE\EQCQTQERYSKGNY HLEKFKP*RAEMEKEIQRMHNY DKLKSRISEIIDSRRRLE\EDLKK Q\AAEYREIDKRMNSIKPDLIQL RKTRDQYLMWLTQKGVQKK LNEWL\GNENTEDHYSLV\EDD EDLPHHDE\KTWECLGSS/RTRN QSLKNLFARGSRDGTFLVRESS KQGCYACSVVVDGEVKHCVI\
21975	52343	A	22103	3	392	
21976	52344	A	22104	168	404	

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21977	52345	A	22105	49	1760	YQSPA WQSHWHQKLQVRKEN MAKRVAIVGAGVSGLASIKCCL EEGLEPTCFERSDDLGLWRFT EHVEEGRASLYKSVVSNSCKE MSCYSDFPFPEDYPNYVPNSQF LEYLKM MYANHFDLLKHQFKT KVCSVT KCSDSAVSGQWEVVT MHEEKQESAIFDAVMVCTGFL TNPYLPLDSFPGINAFKGQYFHS RQYKHPDIFKDKRVLVIGMGNS GTDIAVEASHLAEKVFLSTTGG GWVISRIFDSGYPWDVMVFMTR FQNMLRNSLPTPIVTWLMERKI NNWLNHANYGLIPEDRTQLKE FVLNDELPGRIITGKVFIRPSIKE VKENSVIFNNTSKEEPIDIIVFAT GYTFAFPFLDES VVKVEDGQA\ SLYKYIFPAHLQKPTL\AIIGLH/ IKPLGLP*LPTGETQVRWAVSG S*KVLTRLPPPSVMIEEINARKE NKPSWFGLCYCKALQSDYITYI DELLTYINTKPNL/FSLWLLTDP TSGLWTVFFGPAC\SPYQFRLTG P\GKMGKGAQEIALHGPQWDP NISRVH SKVRSCYKEFSIFPGK FFLKVF SFPGFGLWLFLLIFPYK
21978	52346	A	22106	262	969	EWSSVRRSLVEKRALRRPHPQC LCFRMKTIL\SNQTVDIPE\NVDI TLKGRTGIREGPPEGTLR\RDFA\ HIN\VELSLLWKEKKRGSRVDK\ WWGNQKRNWPTRSD*FVSHV QN\MIKGWLHWGFR LQG*GPV YAHFPHQPLLSRKNGVSWLKIR KFLWGEKY\RRVSG*RPGCLL VSVSQGPRKDEINPLKG\NDIEL VSK/SSAGF*FQQATTS*KTRNI RKFL\DGIFCLLEKGLFRQA
21979	52347	B	22107	211	457	
21980	52348	A	22108	1	159	KEAENQCLDISSPGMSGHRQGH DSLEHDELREIFNDLSSSEDED ETQH QDEK*LDISSPGMSGHRQ GHDSLEHDELREIFNDLSSSEDED EETQH QDEK
21981	52349	C	22109	167	367	

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21982	52350	A	22110	754	1950	VKGGDDAPHELGE/SQFILRLPP VEYASTVRRRAVQSGHVNLDRL TIELHPDGRHGI\VRVDRVPLAS KLVD\LP\CVMEEPENPLLKKPF SKTAIIGQMLVSTVDGDLFPPV EPPSCLALDPKAS\KKKDKDKE KK\FI\W\NHGITLPLKNVRKRRF RKTAKKEIYLNLPDV*KKELKR VLEVPDA\EA\STRWGIICPKV ETKGAENQG\LDISSPGMSGH R\QGHDSLEHDELREIFNDLSS SEDEDETQHQDEEDINIIDTEED LERQLQDKL NESDEQH QENEG TNQLVMGIQKQIDNMKGKLAQE TQDRAK\RQEDLIM\KVGNLGS PRTDFQAVLGMSFNQREDREK EQLASSLQEELESLLREVKKNL M FNFQSFRLVQHLGKFFGLLLL GYLRPCSS
21983	52351	B	22111	227	355	
21984	52352	A	22112	121	486	WGPALCIGGYLASFLASVHLM P LR*GEMLSP*GLSFSFRFPGFKE VRLVPGRHDIAFVEFDNEVQAG AARDALQGFKITLSPLKVSPL GAFLEPCVSEWSPHSIVPRVCPQ TLHLALLGRN
21985	52353	B	22113	8	165	
21986	52354	A	22114	1	218	
21987	52355	A	22115	566	1412	TLHSMAMPETRPNHTIYIN\NLN EKIKKDELKKSLLRPSFF/SSLG QILGYSWGIIHGRP*RMEGARPF SIFKEVSSGTNALR\SMQGFPPY\ DKPMRIPVLPRTLQDIHLPRIE RAPFIGSRDPKAGERGRPKSQG DPGPPKEGLCKGGGSHPRGGG LSRGPGPGHCPPMT\KAPRI\MH HMPG\QPPLTAAPLDMIPPPG\L APGQIPPG\AMPP\QQLMPGQMP P\AQ\PLWRNPP\NHILF\LTNLP\ EET\NELMLSHAFSNQVPPGFKE GPVWVPRAGNEHRPSVEV

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21988	52356	A	22116	2	1176	FGELSTFD AVRGP RRCPDAD PRAPGLALPGRLLVSNRRTHS RESRAPPAPHLLGARAGMAPPQ VLA\FGLLLAAATATFAAAQEE CVCENYK\LAVNCFCE*INRQC Q\CTSVGAQNTVICSKLGCQMF W*MKAEMNGSKLGRRAKPEG GLQ\NNDGLYDPDCDESLFKA KQCNG\TSTC\WCVNT\AGVVRT HKDTEVTCSEVRITYWIIELKH KAREKPY\DSKSLRT*LQKEITT RYTLGSKFLSRVFWYENNVITI\ DLFQNFSSKKLRNDVDIADVAY YF\EKDVK\GESLFH\SKKMDLT VNGEQLDLDLLIPGQTL\YNVD EKAP*/DFSMQGLK\AGVIAVIV VVVITSCCWKLLVLVISQKGRE WQKYEKA EIKGDGCRCHRELQ
21989	52357	A	22117	3	257	AKALQWPLGRGGGGT PRGSRP PGPH*SERGAVQPRSLPRQAA* RVPSGPADGQ*DGHGADPGS RQRCKPWSEAADLHSECYSS
21990	52358	A	22118	1467	1748	SEYNCC EIGCPQPSWGPWGRG\ TDVRQQQVGEEVHG/ECGGG SQG*RPG**AGSPAP*PGTWTGT AQQGPAAVLDPLRV*GGGIERH PLHSVGL
21991	52359	B	22119	1	1461	
21992	52360	A	22120	29	417	

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21993	52361	A	22121	616	1671	TATCKPWSMRTTISSSQPKLT NSVKLPPSAKCISVSRIGGFLVS LTSRMKLRTLICSKLLPSGGV RGLAGSGVKLQTFTVSVTALK AACLELFTSPGGFMVLLASEVK LQTFSGDSDCLGQGRRAQRRP GPGVSAVGASGQQRAPESNERP AEEPTPAPMPSSAPRGPTPALR RPSSADRPLAPGACRAPGAMAS PSGSSKATGKPRGRDGRPRREE DDVTPEEKRLRLLEECSAQPD DGEDAPRPRGKETGTQTGGDG RGAARAALLAVGGIRAPLPSLG VAPGC\PM SKPPRRHPGATPR/P GQGGSDAAHGEEGCPCSSAV ATCLGAGLLP\PGRGASSPSSGC ALPSSSNSRSLFSSGVTSSSSLLG RPSLPRGLPVALELPEGLAMAP GALPAPGASGLSAELGRLSAGS VGPRGA\G*ASGRAWAPPRAAR CSLAPSAG\PRAHRGHAGPWPA LSSP/GPGPSSRCPLPRRSAASLL KPAR/AINPPGEVNNRHAALR AVTLTVKVCSTPEPARPRTPE GRSFEHIRRVRSFIEVSETKNP PILDTLIHLALGGSFTLFVNFCG WDELIVVLIDQGLHVAV
21994	52362	A	22122	892	1931	CTWNENQRMEIVWEVLFLQA NFIVCISAQQNSPKIHEGWWAY KEVVQGFNFVPVPSFWGLVNSA WNLCVSGKRQSPVNIETSHMIF DPFLTPLRINTGGRKVS GMTYN TGRHVSLRLDKEHLVNISGGPM TYSHRLEEIRLHFGSEDSQGSEH LLNGQAFSGEVQLIHYNHELYT NVTEAAKSPNGLVVVSIFIKVS DSSNPFLNRML\NRDTFTRN*H FKNDGIFYRGL*YRGELLFQG TSSFITYDGDGLFPTPGY/SRT ASWII MNKPV*Y NPGCKMHSLR LL\SQEPAISRSLSMSDNFRPV QPLNNRCIRTNINFSLQKDCP NNRAQKLQYRVNEWLLK
21995	52363	A	22123	17	417	
21996	52364	A	22124	63	449	CHPALLGPTGHGAWPRHRAPD TLRASAGGRDP*GRRSAPA*ER QP*PPVYCAGISQYD*TALSSCL RRSVRTSTDFRSLDKSNYSVF LCFLQLAGRRYFAMWTRPEFFL ARDPRSLSWGLEWRPLSL
21997	52365	B	22125	1	1131	

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21998	52366	A	22126	359	548	
21999	52367	A	22127	755	1031	TRGVLEHMAALGKGTLDPSGP AP*NHPE\VSAAASTQEAAGPP AGRPGHSGCLALPASSTSLEP GLRQDHDLLLQLLWREQEVFH DVIQLL
22000	52368	A	22128	1	277	
22001	52369	A	22129	1	933	
22002	52370	A	22130	339	863	PSPVPARPVCPSAPISMPPCP WREAEAADLRPEAPGHRDGED VGFLSSGQLSGLCSKRKLQPTR AALTTPSAVNKIK\HFLKNNPE HVGKVGVRTRGCNGLSYTLE YTKTKGDSDEEVIQDGVRVFIE K\KAQLTLL*TEM DYVEDKLSK GVGVITPNIKGTCGCGESFNI
22003	52371	A	22131	16	419	QIQHRPWP/SRSYTNVLGRKVV YLP SFFTYAKYIVQVDGKIGLF RGLSPLMMSNALYTATRCFMK KDLPPDEIEQVSNKDDMTTSLN KVANDTSYEMMMHCVSRMLP HPLHVISMRCMDQIVGREAKYS GVLSSIG
22004	52372	A	22132	3	441	RSYTKFVMGIAVSMLTYPFLLV GDLMAVNNCGLQAGLPPYSPV FKSWIHCWKYLSVQ\GASTGRR RPFLFFATSF*\NGFVDASLHAK GQLFRGSS\CFSAGCHQDHALP WSNLNHLKNTVSTWPPWVRPD HLGTPARRLQPNNNQM
22005	52373	A	22133	1	1232	MAGAGAGAGARGGAAAGVEA RARDPPPAHRAHPRHPRPAAQP SARRMDGGSGGLGSGDNAPT EALFVALGAGVTALSHPLLYV KLLIQVGHEMPPTLGTNLVGR KVLYLPSFFTYAKYIGQRDARE GLVPRLSPRLMSNALSTVTRGS MKKVFPDEIEQVSNKDDYEDF P*RKLLKETS YEMMMQCVSRM LAHPLHVISMRCMVQFVGREA KYSGLSSIGKIFKEEGLLGFFV GLIPHLLGDVVFLWGCNLLAHF INAYLVDDSVSDTPGGIGKRPE SRFPFSQALALRSYTKFVMGIA VSMLTYPFLLVGDLMAVNNCG LQAGVPP\YSPVFKSWIHCWKY LSVQGG\LFRGSS\CFSAGCHQD HALPW\SNLNHLKNTV\STWPP WV\RPDHLGTTARRFQPNNNQ

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22006	52374	A	22134	3	1156	PRHPRPAAQPSARRMDGGSGG LGSGDNAPTTEALFVALGAGV TALSHPLL YVKLLIQVGHEPMP PTLGTNVLGRKVL YLPSFFTYA KYIVQVDGKIGLFRGLSPRLMS NALSTVTRGSMKKVFPPDEIEQ VSNKDDMKTSLLKVVKETS YE MMMQC VSRMLAHPLHVISM R CMVQFVGREAKYSGVLSSIGKI FKE\EGLLGFFVGL\IPHLLG\DV VFLWG\C\NLLAHF\INAYLVDD SFS\QAL\AIRSYTKFVMGIAVS MLTYPFLLVGDLM AVNNCGAA SWGSPPYSPVFKS W\IHCWKYL SVQGGQLFRGSS\CFSAGC\HQDH GFALGVN*NHLKNT\VSTWPPW VRPDHLGTPARRLQPNNNQMC SSPAG\FQFHICHVSV\QMWG
22007	52375	A	22135	2	425	
22008	52376	A	22136	2	430	
22009	52377	A	22137	2	406	
22010	52378	A	22138	1	297	
22011	52379	A	22139	1	111	
22012	52380	A	22140	1	398	
22013	52381	A	22141	1	409	
22014	52382	A	22142	500	1234	GPNCRPPSCSAVEGA WPRPQGA GARA AIALSQKLELGGVGLVQ VQCPSLAPSTSSILFLCLLPHPP PHRCLQENTTCLL GVEGVLLLQ SPFPLLKTDHSSLPALAPTQSQA ALWGFADFGFMFESSPGGNLG WEPDIKLTDEMVMIMGGKMEA TPFKWFMEMCVRGYLA VRPY MDVVVSLVTIMLDTGLPCFRG/ QIKFLKHRFSPNMTEREA*NFIM KVIQSCFLSNRSRTYNMIQYYQ NDIPY
22015	52383	A	22143	2	6378	SAGPAGPLQVQKLLCMCPVDF HGIFQLDERRRDAVIALGIFLIES DLQHKDCVGPYLLRLLKGLPK VYWVEESTARKGRGALPVAES FSFCLVTLLSDVAYRDP SLRDEI LEVLLQVLHVLLGMCQALEIQ DKEYLCKYAIPCLIGISRAFGRY SNMEESLLSKLFPKIPPHSLRVL EELEGVRRRSFNDRSILPSNLL TVCQEGTLKRKTSSVSSISQVSP ERGMPPSPSGGS AFHYFEASC LPDGTALEPE

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22016	52384	A	22144	3	398	IHKAASGVPPQPDAGCPGTGEQ QGGQRCGQ*AGP/AQAPC*SRA GTR/PTCFFVLTSLSWYRVDS NKL MNPLVAGFFG/CHCGSGQC LRKCSSARDRAPDARPLDLAQ GRCCHCNKACLHASETGVGTT SVL
22017	52385	A	22145	344	498	
22018	52386	A	22146	344	406	FLADQEDPLDPRAGCR*ETTAP RIPSKGPSSTEPLHASTAVPPCQ GELGCSRASPASEKI/DLAGRLIS PCNSDTVSPGLGGFMTCAQSLI SRRPGGPPIPPGWLQGPPLHG
22019	52387	A	22147	3	2058	LSGSGAPPGVGGAQAAAAAEE EEREVVRVRVKVRLAVSRPSRR GKFRSFAVDPQITSLDVLQHILI RAFDLSG*VGRCWGLLGRDRL GQEVYLSLLSDWDLSTAFATAS KPYLQLRVDIRPSEDSEYSVPPG AISP KDVIGSDVLLAEKRSSLTT AALPFTQSILTQVFSGTLGTQQ VLSWSYGEDVKPFKPPLSDAEF HTYLNHEGQLSRPEELRLRIYH GGVEPSLRKVSILSHLLVYPDG LTGRERMDYMKRKSREYEQLK SEWAQRANPEDLEFIRSTVLKD VLRTDRAHPYYAGPEDGPHLR ALHDLLTTYAVTHPQVSYCQG MSDLASPILAVMDHEGHAFVC FCGIMKRLAANFHPDGRAMAT KFAHLKLLLRHA\DPDFYQYLQ EAGADDLFFCYRWLLLELKREF AFDDALRMLEVTWSSLPDPPE HEVELVGPPSQVADTGFGDHR G\WPVRQRHMLRPAGGGGSTF EDAVDHLATASQGPGGGGRLL RQASLDGLQQLRDNMGSRDDP LVQLPHPAALISSK\GLSEPLLN YPDPLLSSFHPDSPSSSSPPSTQ EASPTGDMAVGSPLMQEVGSP KDPGKSLPPVPPMGLPPPQEF RGNPFMLFLCLAILLEHRDHIM RNLGDYNELAMHFDRLVRKHH LGRVLRARALFADYLQSEVW
22020	52388	A	22148	130	387	
22021	52389	A	22149	1	279	

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22022	52390	A	22150	105	499	DMSDTSSESGAGLTRFQAEASEK DSSMMQTLT\TV\TPEAREAPA TQASSTTQ\LTDTQVLA\AENKSL AADTKKQ\NADPQAVTMPATET KKVSHVADTKVNTKAQETEEA PSQAPADEPEPESAAAQSQENQ DTR
22023	52391	A	22151	285	984	TSLSCYFSRTKDSPKLGLLMVL LSHFMNGNRSSEAVIWEVLRK\L GLRPGYDWALSALAVRVVLW QERTVLGLHQSGGLVERVGCW TG*RAQGS\DLGG*WVNGPELS APSLSVSWASMELPSCAGNLFS ILEMPLPTSGKCHSLE*IYLFYF SFSSLRIHHS\LF\GDVKKLITDEF VKQKYL\DYARVPNSNPPEYEFF WGLRSYYETSKMKVLKFGCKV QK\KDPKEWAAQYRE
22024	52392	A	22152	259	578	
22025	52393	A	22153	296	2242	NMSDTSSESGVAGLTRFQA\EAASE KDSSMMQTLT\TV\TQNVEVPE TPKASKAL\EVSEDVKVSKASG VSKATEVSKTPEAREAPATQAS SYLLSLTD\TQVLA\A\ENKSLAA *H\QGNRMVDPQAC*QLPAT\ET KKVSHVADYGRFNYKGFRRLR LAPS\QAPADEPEPESAAAQFSG RFRVFGPKVKAKKARKVKHLD GEKDGSSDQSQASGTTGG\RRV SKALMASMARRASRGPIAFWA RRASRTRLAA\WARRAFALPLEI TLKPRRAKGLRR\RVAKFQ\SSQ EPEAPPPRG\LALLQGRAN\DLV KYLLAKDQTKIPIKRS\MDLKDII KEYTDVYPEI\NERAGYSLE\KVF GIQLKEIDKNDHLYILLSTLEPT DAGILGTTKDSPKLGLLMVLLS IIF\MN\GNGNRS\SEAVIWEVLRKL\A GLRPGIHH\SL\LG\DVK\KLITDE F\VKQKYLGLCQKVPNSNPPEY EFLLGACALY**EPAKMKSPQS FACK/VYQKEGSPRNWGSSVPP REGKGRMEADFEGCKLRLTLE AKAKGPRLEAPNGPLGLGSGE MLAGP\CNWDEA\DIGNPWAK ARIPRREQKLKAKAPKRS\GSA\S TGA\STST\NNSAS\ASA\STSGGF \SAAASL\TATLHIWGSSAGLWL ELGCQHQSARSGAC\GVSYK

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22026	52394	A	22154	1	487	EFRQPSFRRSIWP/YFLLTQA/VR TGNPAKFNQVLDQFGEKFQAD GTYTLIIRLRHNVIKTGVRMISL SYSRISLADIAQKLQLDSPEDAE FIVAKAIRDGVIEASINHEKGYV QSKEMIDIYSTREPQLAFHQEG KDSSVYSFREWGTRTGMSWLVCFLKLRL
22027	52395	A	22155	2	429	
22028	52396	A	22156	1	328	GTRFQADGTYTLIIRLRHNVIKT GV/RSGSEGLLEEKPGQGKPS GYPWASEGSVSTLPTPSLLPLPG VRMISLSYSRISLADIAQKLQLD SPEDADFIVAKVGLVQEPQ
22029	52397	A	22157	138	2206	AVTPGAMKQEGSARRRGADK AKPPPGGGEQEP\APAPQDVE MKEEAATGGGSTGEADG\KTA AAAA*SNFPAKSWDYSHLWKD IKEHRETS*RKAVSGKEPRFVLR ALRMLPSTSRRLNHYVLYKAV/ QGAFFTSNNAT\RDFLLPFLERA HGTQEADLLFRPRTGKAAGTP LLPEVEAYLQLLVIFMMNSKR YKEAQKISDDLQKISTQNRRA LADLVAAKCYYYHARVYEFLAD KLADVVRI SLHG\RLRTATLRHD ADGQATLLNLLLRNYLHYKL VPTSLRSLVSKSVFP/EEQAQQP NEWGQVTSYLHQGRIKAIQ\LE YSEARRTMTNALRKAP\QHTAV GFKQTVHKLLIVVELLLGEIPDR LQFRQPSLKRSLMPYFLLTQAV RTGN\LPRTQVLDQFGEKFQA DGYTLIIRLRHNVIKTGVRMIS LSYSRISLADIAQKLQLDSPED AEFIVAKAIRDGVIEASIN\HEK AYVQ\SKEMIDIYST\RD PQLAL H\QRISFCLDIHNMVWSRPMRV PSPKSYKQGSWSLQRNGRERR NKQDLE\FPKEMA\EDDDDSFPL KLGGWGGVRGKWGTRQLCPP WGYPLPQGTCPPFSPTAHML AFRGRGWGCWEPATPDLPGL LPSRVTLVQPGRRVGRQPPRG RVLASSVADRRGRISLCTPFRE WGTRTWDVYGLLCFLKLRL
22030	52398	A	22158	86	348	

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22031	52399	A	22159	3	356	LPLSMDVRAPPAVMAAVDQAL KEFGRIDILINCSSSSCGLPFCR\ AAGNFLCPAGALSFNAFKTVM DIDTSGTFNVSRVLYEKFFRDH GGVIINITATLGNRGQALQVHA G\SAKAAVD
22032	52400	A	22160	3	255	GPWSCHAGA*GPGATQVSEDQ GLREPHGSRDLCSLG*KH*GAPI CAWPMSWDGPPAAHKVRPSVS APPVCINTLCYNLASAFS
22033	52401	A	22161	3	360	
22034	52402	A	22162	240	1356	AGNPSGIPGTRVHRGQRGGFAS TWSGRGAGSTPLQNSPPRQPHR EKEFLRQVLEGGSHTGVRPSA ARLVPNPHSLVSPDLL*LVSRA T\PHIFLAARKLAGATGRRCLPL SMDVRAPPAVMAAVDQALKEF GRIDILINCESVLSEVGGFSQAP AAPAVSHSAGAAGNFLCPAGA LSFNAFKTVMDIDTSGTFNVSR VLYEKFFRDHGGVIVNITATLG NRGQALQVHAGSAKAAVDAM TRHLAVEWGPQNIRVNSLAPGP ISGTEGLRRLDASQGMSWGRG EGAGSWGSRGLSLLLPS\GGPQ ASLSTKVTASPLQRLGNKTEIA HSVLYLASPLASYVTGAVLVA DGGAWLTFPNGVKGLPDFASF
22035	52403	B	22163	214	1647	

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22036	52404	A	22164	1765	1910	LSHPHSRTPPNRTPRRTRIPQRP AVMYSPLCLTQDEFHPFIEALLP HVRAFAYTWFNLRARKRKYFK KHEKRMSKEEERAVKDELLSE KPEVKQKWASRLAKLRKDIR PEYREDFVLTVTGKKPPCCVLS NPDQKGKMRRIDCLRQADKV WRLDLVMVILFKGIPLESTDGE RLVKSPQCSNPGLCVQPHHIGV SVKELDLYLAAYFVHAGRISSQS ESP\SQ\PSDADIKDQPENGTFGA SRDSFVT\SGVF\SVT*A*LRVSQ TP\AAGVTGPNFSLSDLESSYY SMSPGAMRRSLPSTSSTSKRL KSVEDEMDSPG\EEPFTGQAR SPGKWTVSPSGLSVSWSQGMPS PTTLKKSEKSGFQQPLPFHRPPS LGNGFHTAFTDLFIYQGPQSKF HIATPSIL\HFPRHSPFFQQPGPY FSHPAIRYHPQETLKEFVQLVCP DAGQQAGQPNGSSQGVHNPF LPTPMLPPPPPPMARPVPLPVP DTKPPTTSTEGGAASPTSPTRRS /PGRTRPQQPFL/SYGPP*PHFLR AGIHHL
22037	52405	A	22165	63	250	
22038	52406	A	22166	1	817	SRLGHPRKDMDDDTKATLISY MSLSFRHGYCFSEDPVHTELG IQSGRGGRGDPDPGNALE*LA HLGP/SSHLGP*AQDGLVDAAG RASPLAGTEGAGRFSHLQPI/GP RGPPE*GAAGERFPSGVAG/GPR GAHGLPCPEQLQLQPPPPS*MP KTGSTFVAHFPSPLAQGHSPPG GGAGWCSGCSPDRPPLLVGS HGELLNPNSPAYEVGAG/RPAT GSSGTRAGPPSPSHSAPGRTPSV SLCD/RHQCLRASPTGSIGSLPA HWREGLAGPLMD

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22039	52407	A	22167	240	1790	TAKNSYLESCPLHMENSIHQWP RQFPFPVRRQGADAACGAGSQ ALVPSHSDTDGVLPGAEWLGD GGPARVP/GAAGGRGPAPTS*A GP*LSL*APLCFASGLSGNGKQL LGAAGRSSSHAQMHELHPAQ* HE*ATDHTGGQGPP/G*KQQNG PP/GPDNDLPAPESTPPTWNEDF LPDAIPLAHPVPRQRRPTGPAGP PGQTGPPGPAGPPGSKGDRGQT GEKGPAGPPGLLGPGRGLPG EMGRPGPPGPAGNPGPSPN SPQGALYSLQPPTDKDNG/TQG WPLPSWTQCW/SGVPGRGPPG PPGPPGRGPPGPPGTPGSQGLA GERGTVPSG/AGGAAAERGPE DPGRASPHPGAHDWDPRSPGLP RGRFWPGCCPESQPQDEEGWH PTRWGPCCPAWARPWTEERG/S RPAAGS/RGVSDISETPGRPIYPD DKSQA VSVLCARSRLRAQLRP GAEQMNDCKGITGRQDIHAV SFASEHNIQNWVSKHLQLSPPV TPATQAPLKVRVPQASTLVL
22040	52408	A	22168	104	271	PSCTNPYGGGRRCDSSVVPNQCF TKHMQSRLLG*GEKALEGGGG RGVKSLVTKRDF
22041	52409	A	22169	494	1074	KGTTLCQKHGGGYLHWGHHF EMMRLTINRSMDPKNMFAIWR VPSPFQPITRKSVGHRM\GGGK\ GAI*HYLTP/VKAGRLV\VEMG GRCEFARSAKVSLTQVALRSCP FASKRL*ACGTPREGCEQDQEE RERQQPRTPTWTI*AE*PTAQHG WAYGKVPEPHMTLTPQGEILG ARFYMPKTCVVSVGDILYIGY
22042	52410	A	22170	61	329	NQRSGKKSQPW*STITPPSLIWL SNSSTTLSSSKMGQSYSSS*PSY NCSVSRMFGSNMVPAATASGA SLTCPLLWLSMTHFRKVGWW A
22043	52411	A	22171	21	444	STAQSISSDLHYFLALLVYYW AADARFLPGRIPWLIHKELEKS HTEYCLVGSSQYTPLVQVFRSN TLVSVLSTKTI*NQRSGKKSQP W*STITPPSLIWL SNSSTTLSSSK MGQSYSSS*PSYNCSSRAKSPTL TVFQS

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22044	52412	A	22172	163	1056	LEKSDHRISWSPGKTA\SPKSMP ERWHR*WAQILKD\MGITEYEP R\VIN\QMLEFAF\RYVTIL\DD AKIYSSHAK\KATVD\ADDVPIG QSRC\RAGSSLFTSPPPKRF/LLL RYLARQKKSNPFCPLIKPY\SGP RLPPDRYC\LTAP\NYRLKSFTE KGHSTSAGKELTVP\RLSVGFRL LSRTKVLPTLGAHPTPQ\TMSVF NLK*GTPHVPSPGQRFSTRCPT S\QS\PAVKSQFPGNLSQFQNV L\INPIH*IGSQKHSYYPLNMMS S\QNTA\NESSNALKRKREDDDD DG\DDDDDDDYDNL
22045	52413	A	22173	215	344	
22046	52414	A	22174	302	1330	ACEQKRGGEGGNKNRERRKGE KAGRRQGTRQPCSRMRRTKQ VEKNDDDDQKIEQDGIKPEDKA HKAATKIQASFRGHITRKKLKG EKKDDVQA\AEAEA\NKKDEAP /VFADGVEKKGEG\TTTARSSPQ PLAPKP\DEPGKAGETS\SEEKM GEG*LLATEQGSPPRLLAS\SEE KAGSAETESATKASTDNSPSSK AEDAPAK\EEPQADVPA/AFG VFPNPLGALLLAATTPAAEDAA AKATAQPPTETGESSQAEENIE AVDE\TKPKESARQDEGKEEEP EA\DQEHA WNSGEMGFPHPHPP GCLACLSLPSSQLHSEVPSCPAH VCESVLSHPLALFLSVWANI

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22047	52415	A	22175	2	1577	HGFRLPHPQPALRRLLDQRRPK TEDRCGHWDQILDLSIIKHLFS MSFIPVAEDSDFPIHNLPYGVFS TRGDPRPRIGVAIGDQILDLSIIK HLFTGPVLSKHQDVFNQPTLNS FMS\LGHAAWKEARVFLQNLL/ SL*SQARLRDDTELKRCAFISQA SATMHLPATIGDYTDFYSSRQH ATNVGIMFRDKENALMPNWLH LPVG\YHGRASSVVVSGTPIRRP MGQMKPDDSKPPVYGACKLLD MELEMAFFVVGPNRLGEPISK AHEHIFGMVLMNDWSARDIQK WEYVPLGPFLGEEFWGPLSLP WGGCPWDALMPFAVPNPKAV PQAPCRYLCHDEPYTFDINLSV NLKG\EGM\SQAAT\ICKVQILK YMYWT\MLQQAHSPTLSNGC\N LRPGGPPGLSGTHQAGPEP/EKN FGSMVE\LSWKGTKP\DLG\NG Q\TRKFLLD\GDEVIITAMATRD FKWYC\QGDG\YRIGFGQ\CAGK VLPALLPIMRFSLLFWKQRAQS TPFQPCDWGSSPRAVGLVPPFQ
22048	52416	A	22176	3	623	DSRNSSILPRRGALLKVNQELA GYTGGDVFSFIKEDFELQNLKQL IFDSVFSASFVGGMLVPIGDKP SSIADRFYLGGPSIRGFSMHSI GPQSEG DYLGGEAYWAGGLHL YTPLPFRPGQGFGELFRTHFFL NAGNLCNLNYGEGPKAHYIVK LAECIRWSYGAGIVLRLGNIAR L\ELNYCVPMGVQTGDRICDGV QFGAGIRFL

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22049	52417	A	22177	352	2397	GPMSEGIASQGARRRRGIMGLR GLWASRADGRRGETEPEAKQEI LENKDVSFLKVLIELLVETFTS IHH*GDDVFKAKNLIEVGVVST WCAFPVSSEELVNVPM*NIDTC QGTTCGVVSL*FPFCPSEKSCFY GQNNTMVGNNEGSMVCYRLF TFLYWNLELGTFTL*LHSETS YGLSFFKPRPGNFERK*EAQQII EYTGLIEKLK*VAYL*KSAEYS VS\AFQSFPLGLGENRVAFLIP KGSYLIQ*VSNGCWLHLCQPLL WGSYHRILAEELRVLIESTWPFE G*LCNGTSQAFSCGPCTPSRSSA RHGHSVCGQLLVADVPGVKG MLGENNHLFLKY*SMNG*FA/L YFPLDLFSCFL*ESFPLTAPSLEG SRLTLETMYLLCQGGFGELFRT HFFLNAGNLCNLNYGKTCAIQE TIVVQLFSLCKAQYTKIRLGNI RLELNYCVPMPGVQTGDYVVG IIFHNHPLSSNFILFWTFASGD TAGAARLLRLPTDDRAFRDGG GCSHNRQLPFPSTPLLFSTQSPS WKGCSHAGCMHVCLGAQLPG LGAQLGHGSESQVERLLACGG RWGARRQGCCWHDLPKAPHA GCFLAGEKKVGDDQEPCTKTA AVREGESVGCTAEGGCLGLSG GCQGWLAPGLVELRSAAARQE GSRRRRKRRRHLLRVHPQKV
22050	52418	A	22178	1	1017	
22051	52419	A	22179	1	435	
22052	52420	A	22180	1	1353	
22053	52421	A	22181	1	834	
22054	52422	A	22182	2	2675	

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22055	52423	A	22183	72	1339	AMRGANAWAPLCLLLAATQ LSRQQSPERPVFCTCGGILTGESG FIGSEGFPGVWPPESKCTWKIT VPEGKVVLNFRFIDLESDNLC RYDFVDVYNHANGQRIGRFC GTFRPGALVSSGNKMMVQMIS DANTAGNGFMAMFSAAEPNER GDQYCGGLLDRPSGSFKTPN\W PDR\DYAGVTCVWHIVAPKNQ LIELKFEKFDVERDNYCRYDYV AVFNGGEVNDARRIGKYCGDS PPAPIVSERNELLIQFLSDLTA DGFIGHYIFRPKKL\PTTTEQPV\ TTTFPVTGLKPTVALCQQKCR RTGTLEGNYCSSDFVLAGTVIT TITRDGSLHATVSIINIYKEGNL AIQQAGKNMSARLTVVCKQCP LLR\RGLNYIIMGPSRVKDGAR QNSWPNSFIMMFQTARNQKLLG CP*KISQC
22056	52424	A	22184	49	170	HTVGDGRLLRRP*REFGASFL* CFLEARFGLKNWGHCHWRH
22057	52425	B	22185	597	651	
22058	52426	A	22186	1	791	
22059	52427	A	22187	2	943	TGACAEPRVGLLFRLKGRCRG GRNMELGSCL\YGFREAEEEG EPEVKKRRLLCVEFASVASCDA AVVAQCFLAENDWEMERALNS YFEPPEAESALERRPETISEPKT YVDLTNEETDSTTSKISPSED QQENG\SMFSL\ITWEYLMGL\AD LKQSVQRRARGVCSYLAL*VLS LLFNSNVSYVYTERMNQLKMV LKKMQEAPESATVIFAGDTNLR DREVSDKVSLMFEDRLLLWRLI *VPFCQYTWDTQMNSNLGITA ACKLRFDRIFFRAAAEEGHIPR SLDLLGLEKLDGCRFPSDHWGL LCNLDIIL
22060	52428	A	22188	277	534	

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22061	52429	A	22189	29	1305	VGVLRLVECPLCPGPAPMSVPA FID\SEEDQAAELRAYLKSKGA\ EISEENSEGGLHVDLAQIIEACD VCLKEDDKD\VESVMNSVGIPY SWIL\EPDKQ\EAFDLKALCEKA GSKFPRR*TAPSLETCSFLSNLF H\GMG*GILPVKIHSVICSL\IKV\ AASCGAIQYHPQLEPGIKFRK WDFLNWN\LTGKKSTPLLKTT FMKALVE\CKKSDAASKGM\VE LLGSYP\EGNASQ\ARVDAHR\C IV\RALKDPN\AFLFD\HLLTLKP VKFFGKASLFHCSFLT\K\VSA* MGHHMSRFYPD*LRTFH*IPLG PVTMDPGIWPKMRLLF/TFMGN GQ*KNKEISF*PQCQEPSRLGA DDVESHVIDA\VRN*KWVYC QNWSRPRRKVVVSHSTHR\TFG K\QQWQTTVLTHLNAW\KQNL NK\VKNSLLSLF
22062	52430	A	22190	194	413	
22063	52431	A	22191	3	160	EVKFQWVLSLG*SFSLPKSSFQ RCGAGGAVHWSTALFLLGAAS ASSYHQRPG
22064	52432	A	22192	268	473	
22065	52433	C	22193	93	500	
22066	52434	A	22194	2	398	FFLRRSLALSPRPDCGLQWRNL GSLQAPLPGFTPFSCSLPSSWD YRRPPRPANFLYF**RRGFTLL ARMVIS*PHDPPASASQSAGIT GVSHRARPETYNFCSFIHSSLPV EPEARMTKNSDIGEIW
22067	52435	A	22195	972	2180	PRHCCASASSAPASRPASSSSP PAACPW*GSLGPAATPATWR R
22068	52436	A	22196	2271	3074	RDPSTPTVVRSLGVPLLSRRRFK MAPSVAATKLAERNETMVQTC WTETQSSSDGSTPRRVRISLAL WRPSLFFSMADTSLVLNFPVRS SSGVIRPSNKRPSLAILTRISRTS SPKYMPLTIFSNSCFPGLRDPRSI SLSNSVRMSSNDPSSPKAPHS/G IDTHPPLVSFHQINVPQFLHVAS IGASADDQADFTVLVVIATGHH GAHCVIHHSYDVGIIVPSLFDGF VKQFDHICSFHSARFKSLCPGD QDGLIYFGLLARKRKRESHR

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22069	52437	A	22197	1956	2747	FAFSPK*HSCLRCPCI*FSSGLLH EVL*LLPLCWP*THGWDPGSRE ANKSPKLHAIRCWWLEENL WLSSNSQSLQTVKN*ESHIN*SC RSNLI/HH*FWNQVK*K*LLNIS GNCFFFLRWSL/DSVAQAGVY WRDLGSLQPPPPGFKRFSCSLP SSWDYWHLPCLAKFCIFSRDG /GFTIWARLVLS*SCDLPASGS QSAGITGVSHHTW/LQVTYFLK EMRSCYFSQVGWPQTPGLKQC SHLKLSSWDYRHMSPHLAISG
22070	52438	C	22198	85	228	
22071	52439	A	22199	2	434	
22072	52440	A	22200	1	1356	
22073	52441	A	22201	146	1909	ILHSLEISALLSLMMLTIGDVIK QLIEAHEQGKDIDLNKVKTKTA AKYGLSAQPRVDIIA\SVPPQY RKVLMPKLKAEPK\TA\SGIVV VAVMCKPHRCPHISFTGNICVY CP/GVGPDSDFEYSTQSYTG\YE PTSMRS/IFRARYDPFLQTKDRI EQ*RQLGHSVDKVEFIVMGGTF MALPEEYRDYFIRNLHDALSGH TSNNIYEAVKYSERSLTKCIGITI ETRPDYCMKRHLSMDLTYGCT RLEIGVQSVYEDVARDTNRGH TVKAVCESFHLAKDSGFKVVA HMMPDLPNVGLERDIEQ\FTEFF ENPAF\RPDGLK\IYPTLVIRGTG LYELWKS\GRYKSYFS**PGLN WVARFLALVPPWTRVYRVQRD IPMPLVSSGVEHGNLRELALAR NEDLRIQCRDVRTREVGIEIH HKVRPYQVELVRRDYVANGG WETFLSYEDPDQDIL\IGLLR\LR KCSEETFRFELGGGVSVIRELH VYGSVVPVSSRDPTKFQHGGFG MLL\MEEAERIS*RRNMGLGKI AVISGVGTR\NY\GKIGYRLPR PRTMVKMLEIMGHTQSHSFC LPWHEHRRIRISLNTQQRGL
22074	52442	A	22202	1	457	
22075	52443	A	22203	2	297	CVMYRDYPLELFMAQCY/GNIS DLGKGRQMPVHYG/CKERHFV TISSPLATQ/IPQAARGPGYGIM/ SIRVDGNDVFAVYNATK/EARR RAVAENQPFLIEARPT

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22076	52444	A	22204	3	1446	DWLLAKMAEAIAAAR\WRLN RGLSHAALLLLRQLGGSGD*AR SHPPRQQQCSALDDKP\QFPG ASAGVIDKLEFIQ\PNVISGIPIYR VM\DPQGQIHQPQARDPHLAEG ERWLKL\YKS\MTLL*HPWDRIL **VFSGQGRILLLT*TNYWLRR GTHVG\SARRLGQTRTLVFGQY REAGVLMYRDYPLELFMAQC YGNISDLGKGROMPVNYG\CKE RHFVTISSPLATQDPSGRWGAA YAATGGANANRVR/VICYFRAR GAAS*GGDAHA\GFNFRCHNL SCPIIFFCRNNGYAISTPTSEQYR GDGIAARGPG\YGIMSIRVDGN DVFAVYNATKEARRRAVAENQ PFSHQAHDSRVQAPSP\SDAS*T YRSVDEVN\YWENKGPPILPGF GHYLF\SQ\GWWDEEQQKAWR KQSRRKDPGPVQPS\VMEAFEQ AERK\PKPNP\NLL\FSDVYQNM PAPVRQPPES\LARHFKTYGNH YPWDHFDK
22077	52445	A	22205	2	292	

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22078	52446	A	22206	1	1894	QSLADLLQSQPSITLTSQIWSPSP A*GFWSWGNLSVTTSPSK\PATP TRTIAATPIQTL PQSQ TAPKRID TPSLEEPSDLEEELEQFAKTFKQR RIILGFT\QGDAGLAMVKLYGN DFSPTTIFRFEALNLSFKNMCKL KPLLEKWLND AENLSSDSSLSS PSALNSPGIEGLSRRRKRTSIE TNIRVALEKSFLENQKPTSEEIT MIADQLNMEKEVIRVWFCNRR QKEKRINPPSSGGTSSSPIKAIFP SPTSLVATTPSLVTSSAATTLTV SPVLPLTSAAVTNLSVTASTSEA SSASETSTTQTTSTPLSSPLGTSQ VMVTASGLQTAAAAALQGAA QLPANASLAAMAAAAGLNPSL MAPSQFAAGGALLSLNPGTSLG ALSPALMSNSTLATIQALASGG SLPITSLDATGNLVFANAGGAP NIVTAPLFLNPQNLSLLTSNPPG GFTIEISNNNSTMVMTGMRIQIG TQAIERAPSYIEIFGR TMQLNLS RSRWFDFPFTREEALQADKKLN LFTVRKFQNI RHTLFK CENKNT FQQCLLLEQDSSCGTGFCSM TT YPVMLLSSEQPVQSLSVRQCVI LLDAAA VISGGMGAVCLLLTH LCPLCYAGLLSEITDPESFVKDL LYSVP

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22079	52447	A	22207	1	2417	MRVRTSSLPSTMLRVQNYARA KAGPEYAFVDSTECSPQWMVS PLKRGQTQTNGLDFQKQVPVVG GAISTAQAQAFGLHGHVQVLA GTSLQAAAQSLNVQSKSNEESG DSQQPSQPSQQPSVQAAIPQTQ LMLAGGQITGLTLTPAQQQLLL QQAQAQAQLLAAAVQQHSAS QQHSAAGATISASAATPMTQIP LSQPIQIAQDLQQLQQLQQQNL NLQQFVLVHPTTNLQPAQFIIS QTPQGGQGLLQA\QNLLTQLPR QSQANLLQSQPRINTLTSQPATP TCTIAATPIQTLPQSQSTPKRIDT PSLEEP\SDLEELEQFAKTFKQR RIKLGFTQGDVGLAMGKLYGN DFSQTTISRFEALNLSFKNMCK LKPLLEKWLND\AENLSSDSSL SPSALNSPGIEGLSRRRKRTSI EA\NIRVALEKSFLEN\QKPTSEE ITMIADQLNMEKGVIRVWFCN RRQKEKRINPPSSGG\TSSSPIKA IFPSPTSLVATTPSPVTSSATTTL TVSPVLPLTSA\VTNLSVTGTS DTTSNNTATVISTAPPASSAVTS PSLSPSPSASASTSEASSASE\TS TTQ\TTSTPLSSPLGTSQVMVTA SGLQTA\AQLLPFKGAAQLPAN\ ASLA\AMAAAAGLNPSLMAPS QFAAGGALLSLNPGTL\SGALSP ALMSK\STLA\TIQTLASGGSL K*TSLECKLGTLVICPMREEPPD
22080	52448	A	22208	3	114	
22081	52449	A	22209	1	505	NLGVDLLPGYQDPYSGRTLTK GEVGCFLSHYSIWEEVVARGLA RVLVFEDDVRFESNFRGLRL MEDVEAEKLSWYSYWTLAYA LRLAGARKLLASQPLRRMLPV DEFLPIMFDQHPNEQYKAHFWP RDLVAFSAQPLLAAPTHYAGD AEWLSDTETSSPWDDDSGR
22082	52450	A	22210	3	626	RAARAAPLLHLLLLLPWLEA AGVAESPLPAEVLAILARNAEH SLPHYLGALELDYPRARMAL WCATDHNVDNTTEMLQEWLA AEGDDYA\AVVWRPEGEPRFYP DEEGPKHWTKERHQFLMELKQ EALT\FARNWGADYI\LGATLGL WQDHSVNSLGGCSPGRAGACD VPSSKFADTDN\ILTNNQTLRLL MGQGLPVVAPMLDSQTNV

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22083	52451	A	22211	1	2004	MRAARAAPLLQLLLLLGPWLE AAGVAESPLPAVVLAAILARNAE HSLPHYLGALERLDYPRARMA LCLQGPAQPQWDLWLAGFEEE QTGTSEVHWGPTWQGSTTLEA SGHRCATDHNVDNTTEMLQE WLAAGVDDYAAAVWRPEGEP RFYPDEEGPKHWTKERHQFLM ELKQEALTFARNWGADYILFA DTDNILTNNQTLRLLMGQGLPE VAPMLDSQTYYSNFWCGITPQ GYRRTAEYFPTKNRQRRGCL RVPMVHSTFLASLR\AEGADQL AFYPPHPNYTWPFDDIIVFAYA CQAAGVSVHVCNEHRYGYMN VPVKSHQ\LEDERNFIHLILE ALVDGPRMQASAHVTRPS\KRP SKIGF\DEVFVISLG\RRPDRRER MLASLWEMEISGRVVDVAVDG WMLQQQVPFRNLRP*DLLPGL/ YKDPYFGPHS*PRAEVGLLSSD HYSIWEEVVSQGAWPR\VLVV *RNDVAPLRTNFQGGGLERL\AM E\DVEGKRNLSEWKPPFRILPLG R\KQVEPLRRETAVEGLPG\LV VAG*LPNWTLA\YALRLAGGP ASLLALQPFAPHCCPVERISLPI HCFDQ\HPNEASTKAHFWRPD\ LVAFSAQ\PLLAAPTHYAG\DAE WILLSRRHHSPWDDDSGRLISW SGSQKTLRSPRLDLTGSSGHSL
22084	52452	A	22212	1	468	ELSHNAKAKVMVASHNEDT/V LFALRRMEELGLHPADHQVYF GQLGMCDQ\SFPLGQAGYPIL TQIHLFSPTCRAAGGEVRCLP ALPRVWALRCGPNLIPAWDSH WKLLGTLLLELCAQGPHLCDPH VLGPRGLSTFCQGQPTQPEPLG EQWPGWG
22085	52453	A	22213	1	1893	

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22086	52454	A	22214	390	2005	INRDVETACTYILRNTEdVMLE FVMREWKKSRKLLGQRLFNKL MKMTFYGHFVAGEDQESIQPL LRHYRAFGVSAILDYGVEEDLS PEEAHEKEMESCSSAAERDGS TNKRDKQYQAHRAFGDRRNG VISARTYFYANEAKCDSHMETF LRCIEASGRVSDDGFIKLTAL GRPQFLLQFSEVLAKWRCFFHQ MAVEQQQAGLAAMDTKLEVA VLQESVAKLGIASRAEIEDWFT AETLGVSGTMDLLDWSSLIDSR TKLSKHF/V*VPNAQTGQLEPLL SRFTEEEELQMTRMLQRMdVL AKKATEMGVRLMVD AEQTYF QPAISRLTLEMQRKFNV EKPLIF NTYQCYLKDAHDNV\TLD\VDL SPREGWCFGAKPVRGAYLAQE RACAAEIGYEDPINPMYEATNT MYHRCLDYVLEELKHNAKAK VMVASHNEDTVRFALRRMEEL GLHPADHQVYFGQLLGMCDQI SFPLG\QAGYPVYKYVPYGPVM EVLPLYLS\RRALE\NSSLMKGTH \RER\QLLWLELLRRLRTGNLFH
22087	52455	A	22215	3	303	
22088	52456	A	22216	798	2250	VPRAPQGML*GPRKDAGTPER RAGPPGGRGTADGGGCGALAG SGS/DDPRLCIWTF LVTdQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGQTHGP PTPLTPKTELQQAGAKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETGP PRPHIKTEQSPGHYGDQPRGSP DYGSCSGQSSATPAAPAGPFAG SQGDYGD LQASSYYGAYPGYA PGLYQYPCFHSPRRPYASPLLN GLALPPAHSPTSHWDQPRRNGS TAQGPKEGVAGALQGAVRSKA GLGAEKPLHSRPHSLDNGCTGC PGSGVSVRRLG

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22089	52457	A	22217	299	1631	LLEPHCGGKCFKRHWFPSCSEA SC\PSAAPQRW*HTG/SPEVPAA PGAQGREPSM/RDGEAVRGGS CMEAGPMGLQCVDKKGQGVH N/RGEARVFLQSQVGAILPRPW PNPAPSEP/VQSPLASSTGP*VFP SRPGQQASGPA/RRHPGAEPGQ RGDAVQLLPRPQTSPHGPQDA ALSSAPHPWRQL/MASPGQEA PLHPFCGHRSPCPVPWQLSPTD PIQSRPPARGWAPANQGRPSHP RCRGGGGAFCGHGF/SYTQPLT FRLASMVLSIHPKPPKETLRFPR NMVVAAEPGVPAMSQRRPRGC TRFSHTDKAPLDTCTDMNAYT CARRHSSTYSDHITLQGAFACT HTWAQSCTCQPPPTPAKCLDR GQSSGMLHAGCVGWGGGTHV RVDLSSQLNRRVRPHLCMLRC WSSCHRASVSCTHPSLHTTGPV LISARTGADHTWYTAGTY
22090	52458	A	22218	383	762	RHQGNQKRKELSLK/CQKSRQE SPRAEENPKWREGKKTSESSV QKAGRAAAAQAGAAASRVPG LSGSNLAPCNKGRLSAREDVSN SKLKILSSGRKHTEHVIMLKAW GLGRQSLRCRLFDLIPSHKV
22091	52459	A	22219	325	945	QPSPLAPKADLSAREGRFQLKV RCRLQQYQQQR\RKFAAAFLA FHFSLLGSCGILAEAG\KKEKPE KK\VKKSDCGRIGSWVCVAPP SGDCGLGHHGRATRT*\AECKQ \TMKTQRCKIPCNWEGRQFGRG SAKLPSFQAWGECDLDTALKT\ KTGSLKRALHKSPNAQKTVTIS/ KSPCGKLTQPQLQAES\KKKK KEGKKPEGRLRD

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22092	52460	A	22220	1	1908	MKYIQDFQREKQEFERNLARFR EDHPDLIQNAKKSDIPEKPKTPQ QLWYTHEKKVYLKVRPDATTK EVKDSLQKQWSQLSDKKRLK WIHKALEQRKEYEIMRDYIQK HPELNISEEGITKSTLTKAERQL KDKFDGRPTKPPNSYSLYCAE LMANMKDVPSTERMVLCSQQ WKLQSQKEKDAYHKKCDQKK KDYEVELLRFLSLPEEEQQRV LGEEKMLNINKKQATSPASKKP AQEGGKGGSEKPKRPVSAMFIF SEEKRRQLQEERPELSESELTRL LARMWNDLSEKKKAKYKARE AALKAQSERKPGGEREERGKLP ESPKRAEEIWQQSVIGDYLARF KNDRVKALKAMEMTWNME KKEKLMWIKKAAEDQKRYERE LSEMRAPPAATNSSKKMKFQG EPKKPPMNGYQKFSQELLSNGE LNHLPLKERMVEIGSRWQRISQ SQKEHYKKLAEEQKQYKVHL DLWVKSLSPQDRAAYKEYISN KRKSMTKLRGPNPKSSRTTLQS KSESEEDDEDEDEDEDEDEEEEE DDENGDSSEDDGDSSESSSEDE SEDGD/EGGADRAQWEGRGVL PGGPPGDSTSFLTPQNEEDDED EDDDEDDDEDEDNESEGSSSSS SSSGDSSDSDSN
22093	52461	A	22221	129	2365	
22094	52462	A	22222	5	2730	PSLRFAISGFVWRLAAPASAAA ELRLDCSARRAPRCPRPALPSTR SAEGAVLCAFRREEQQAATA AAAAAAATAAAAAAPAPPPRP EEEPLPPREGAAVPGRAGEGA ATQSQGGSRWSGKPGGRAAPA RPRRWLDSWRMNGEADCPDLD EMAAPKGGQDRWSQEDMLTLE CMKNNLPSNDSSSKFKTTESHM DWEKVAFKDFSGDMCKLKWV EISNEVRKFRTLTELILDAQ*HF KNPYKG\KKLKKHPDFPK
22095	52463	A	22223	1	446	RPSPTSSM/PGLWGYSRPCSSG VPASALQA*SPAFSPASQRPPTT SWWEVP*EEGRA\PVWEGRIRA VGPAPAS*PSDLPAWSCRWRE TRG\SPAEDAMLLRAVEPLEGC QRPLDSEPP/SPARTSAPAASA SPPAPGGPPCLARPLPR

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22096	52464	A	22224	582	1175	THTHVPAGTHPHTQTTSLSHLI GRALTVPESPKCPCLLPSAC*PR PGRAQPAGPAWSKKEASNPGS E/PPQHSL*RRMAPPE\VPARA VHTCRCLSSAPPGARLPLDPER RAPQSPRSPPPSAQPPPPPPPP PPPGRRGPSQQSWRSPPPPRTR SRSPRRSRVRGPRAPALAAPPP GARPGCAAACGSPTGCS
22097	52465	A	22225	609	5241	GPQTTWCGRPTMCQHCGPAVS SWKQPSHDPCCRGGENRRQPG TPARATQGRLLRRRPEGARVPSA RRGRPRARWRDKERNNTCVA ML*QVTNSTANAPQNNPEVDS IMAEKVEAPASVDWQKRCLT LETQLFRFRLQASKIRELLADK GHGTYISPFSLAKQMQUELEQRL LEAEQRAENAETQVGVMEEKV KLSNLKNVDSEGLHRKYQELL KAIKGKDELISQLEAQLEKQKQ MRAEEAKTVQEKA AKIKEW
22098	52466	A	22226	2	205	
22099	52467	A	22227	1	6186	
22100	52468	A	22228	96	1584	DLGSGITASPPRPEPEHPVFPPA PHTPSKMGKEKTHINIVVIGHV \DSGKSTTTGHLIYKCGGIDKRT IEKFEKEAAEMGKGSFKYAWV LDKLKAEREPG\TIDISLW\KFE\ TTKYIYITIID\APGHRDFIKNMIT G\TSQADCAVLIVAAGVGEFEA GISKNGQTRHALLAYTLGVK QLIVGVNKM DSTEPAYSEKRY DEIVKEVSAYIKKIGYNPATVPF VPISGWHGANMLEPSNMPWF KGWKVERKEGNASGVSLLEA\ LDTILPPTRPTDKPLRLPLQD\ YKI\GGIGTVPVGRVETGILRPG M\VVTFAPVNITTEVKS\VEMHH EALSEALPGDNVGFNVKNVSV KDIRRGNVCGDSKSDPPQEAAQ FTSQVILNHPGQISAGYSPVIDC HTAHIAKFAELKEKIDRRSTK KLEDNPKSLKSGDAAIVEMVPG KPMCVESFS\Q*PVIG/RTPV RD MRQTAA\GVVIKNVQKKS\GA GKVTKSAQKAQKAGK
22101	52469	A	22229	1	1023	
22102	52470	A	22230	1	396	
22103	52471	A	22231	2	1259	
22104	52472	A	22232	1	2514	

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22105	52473	A	22233	3	2027	EESDCLTEYEEDAGPDCSRDEG GSPEGASPSTASEMDVSLHFVL WGCLHVVYQRMIDKAEDVCLFV AQPGEVVGQLAVLTGEPLIFTL RAQRDCTFLRISKSDFYEYDSP KLECGWHEDPNPWTSPSTGL NPLFLELCRHMVFQRLGQGDY VFRPGQPDASIYVVQDGLLELC LPGPDGKECVVKEVVPGDSVN SLLSILDVITGHQHPQRTVSARA ARDSTVLRPLVEAFSAVFTKSA RTITGCVWRYVRASASYCPYLP PLCDPKDGHLLVDGCVNNVP GSLWRYVRASMTRRATCPRCA TPRTGTYSWMAATSTICQASGR PHHPHTQAPPAPHTTRTRTSPA AWVPKRSSPLTWGARMRRTSA PTGTACPAGGCCGSG*IPGLTR* RFQTLWKSSPAWPTCPVCGS*R LSSPAPTASTCARPSTASRPWTL GSSTRSILRTTRRMSTAVTTTAT PAPIITPST*GTNGTGCAQIRPA EPSPGARTSWNPSLSATFAPEEF VASP*LDVPICRMGQCCSLPGG ATLP*GPCGPQCMPGNVVPPER TAARYRQTTAYQTPACPTPPRG QRPT/CVPTVSSLQAGLQGGPRS DFDMAYERGRISVSLQEEASGG SLAAPAREPREQPAGACEYSYC EDESATGGCPFGPYQGRQTSSIF EAAKQELAKLMRIE

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22106	52474	A	22234	281	1832	NDSGLPDRPSSWNQPM EAPLQ TGMVLGVMIGAGVAVVVTAV LILLVVRRLRVPKTPAPDGPRY RFRKRDKVLFYGRKIMRKVSQS TSSLVDTSVSATS RPRMRKKLK MLNIAKKILRIQKETPTLQRKEP PPAVLEADLTEGDLANSHLPSE VLYMLKNVRVLGHFEKPLFLE LCRHMVFQRLG/QGDYVFRPG QPDASIYVVQDGLLELCLPGPD GKECVVKEVVP GDSVNSLLSIL DVITGHQHPQRTVSARAARDST VLRLPVEAFSAVFTKYPESLVR VVQPGPPSGPAPYPAPSYGHAP RALQIIMVRLQRVTFLALHNYL GLTNELFSHEIQPLRLFPSPGLPT RTSPVRGSKRMVSTSATDEPRE TPGRPPDPTGAPLP GPTGLQGG PRSDFDMAYERGRISVSLQEEA SGGSLAAPAREPREQAGACEY SYCEDESATGGCPFGPYQGRQT SSIFEAAKQELAKLMRIEDPSLL NSRVLLHHAKAGTHIARQGDQ MEEVKVPAFAVIVD
22107	52475	A	22235	50	4287	PGRKSPGAEDRALWGPACRLL TDSGLPDRPSSWNQPM EAPLQT GMVLGVMIGAGVAVVVTAVLI LLVVRRLRVPKTPAPDGPRYRF RKRDKVLFYGRKIMRKVSQSTS SLVDTSVSATS RPRMRKKLKM LNIAKKILRIQKETPTLQRKEPP PAVLEADLTEGDLANSHLPSEV LYMLKNVRVLGHFEKPLFLELC RHMVFQRLGQGDYVFRPGQPD A\SIYVVQDGLLELCLPGPDGKE CVVKEVVP GD\SVNS
22108	52476	A	22236	283	403	TCLSLVSGCGHCEKMNSEENW *IPIQWASSNPGRRRKNIR
22109	52477	A	22237	33	222	NGPM\CFVKQLEIPQYGYRNNV PTTTPRSNLAKELEKYSKTSFEY TINDNHTYGGGLGCMRPLV
22110	52478	B	22238	1	1860	
22111	52479	A	22239	303	672	GITACVFFSMAEGRTRAERSCD SK*AIGAPAE*GGASPGKSP WQGAGYSPLGACGHKARLWIP WRRSWSGEKGARGCRGTGKK LGHQGWRWETPGRPGGAGPA GFPDPVVMGCEKEASRV
22112	52480	A	22240	1	1377	

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22113	52481	A	22241	1	2232	MQDTEKDDNNNDEYDNYDEL VAKSLLNLGKIAEDAAYRARTE SEMNSNTSNSLEDDSDKNENLG RKSELSLDLSDVVRVETVDSLK LLAQGHGVVLSNMNDNRNYA DSMSQQDSRNMNYVMLGKPM NNGLMEKMVEESDEEVCLSSL ECLRNQCFDLARKLSETNPQER NPQQNMNIRQHVVRPEEDFPGR PDRNYSMDMLNLMRLEEQLSPRS RVFASCAKEDGCHERDDDTTS VNSDRSEEVDMTKGNLTLL KAIALETERAKAMREKMAMEA GRRDNMRSYEDQSPRQLPGED RKPKSSDSHVKKPYYGKDPST EKESKCPTPGCDGTGHVTGL YPHHRSLSGCPHKDRVPPEILA MHESVLKCPTPGCTGRGHVNS NRNSHRRDIQVFNLQKQEMIDR LESLSGCPAAAAEKLAKAQEKH QSCDVSKSSQASDRVLRPMCFV KQLEIPQYGYRNNVPTTTPRSN LAKELEKYSKTSFEYNSYDNHT YGKRAIAPKVQTRDISPKGYDD ANGYCKDPSPSSSSTSSYAPSSS SNLSCGGGSSASSTCSKSSFDYT HDMEAAHMAATAILNLSTRCR EMPQNLSTKPQDLCA TRNPDM EVDENGTLDL SMNKQRPRDSC CPILTPLEPMSPQQQAVMNNRC FQLGEGDCWDL PVDYTKMKPR RIDEDESKDITPEDLDPFQEAL
22114	52482	A	22242	727	4372	LWACVLPGVTLPPFLGEKTSCK MEVDTEEKRRHRTSRKGVVRPV EPAIQELFSCPTPGCDGSGHVSG KYARHRSVYGCPLAKKRKTQD KQPQEPAPKRKPFVKADSSSV DECDDSDGTEDMDEKEEDEGE EYSEDNDEPGDEDEEDEEGDRE EEEEIEEEDDDDEDGEDVEDE EEEEEEEEEEEEENEDHQM CHNTRIMQD TD LDDNNNDEY DNYDEL VAKSLLNLGKIAEDA AYRARTESEMNSNTSNS

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22115	52483	A	22243	34	1558	PASEEFNSLHGRTPRRDLECRN QQSTTEERRRHDCVQQASEHN EGKWDFAFSAQSQPKP*KPFDV PC*DSRPACP*EHTAGTSGSTSS ETCFFQSSEWPYGELGAYNIFT GPKSTLSSSLVTGVSNSSSL*LP SPKNTITNWFHTRDHSSYSEIHS KACANP*APSQPSR*ASWIAITG SFRRAGLAT*PCCTGSKLLPAW VLANHRWDRTRDGIQKQGNSE *PSSPGTRAFEGNSSSPAPAASIT SMLSPSFTPTSVIRKMYESKEKS KEEPASGKAALGDSKEDTQKA SEENLLSSSSVPSADRDYFSHY KFQTVRHYRGSSCS\PHLSQGQP FTPKEQDYSDLKGNWGRKNTH FGHSPVSLQHFFFRPVPPSSPLSP MVPNG*GLLTKLHPGFGTEDA GPGSTSTASSKFAPNWCASSWD GLESFTGNIWPHPGSALLPFN*S LVHPLLNPRPGNTSASNGATA ANSAQ\SCILQALVSHGSSCSAF QDNPSETCPAGQACPHALP
22116	52484	A	22244	1502	2657	EGKVPLAFIVLTSLNNAVMSPSF FSCRLLVTALKVSSRCSAMKGV EFFTCWSTFKPFRPASTSSTEST TPECELSLSFSLFAERLERRGFK STLAFCSISKISTLFSAWSSNGIG AK*FPEFCPGDRMACSRPASLSS SSCG/S*PKTAGSAS*SARVREPP TEPTGRD*PFSQ\TSSIIIEAKHGT LSRLKNSLKSKSPGDCSGKTAS LGTS*SAAGSCARMTSTSSSSAT PPLHSTIPSFTEAVRRLVFLPL* SSSSILSSKPVSSMVSD*LVGPA ENHSGSSSV*ESFLLRSPKTRLL SPNSLLKRLSLKSLSRSLSLKSR RSLSL\SGDPSQRSGQRLSSHQC SYVHQADEAHHYLSLMDFLSA GS*QRLSRGSPLQSSVSEG
22117	52485	A	22245	324	391	
22118	52486	A	22246	42	274	

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22119	52487	A	22247	1	835	MCAGNLCWEERWAVDEKEA TDKKPHVGGFGQGAPAPA AAMSGRSVRAVTRSRF*DDIKK VMAAIEKVRKWEKKWVTVGD TSLRIFKWVPVTDSEKEKSKS NSSAAREPNGFSPDASANSSLL LEFQDENS\NQS\SVSDVYQLKV DSSTNSSPKPPKQSESLSPAHTS DFRTD\DSQPPTLGQGDPRSP LPASSEVADEPPTLTGRTSFHL ETQVVVEE\EDSGAPPLKRFCV\ DQPTVPQTGSEKLAPSRPSAFW ALPLFIAFWFWPRRVCWG
22120	52488	A	22248	3	244	
22121	52489	B	22249	271	711	
22122	52490	B	22250	73	200	
22123	52491	A	22251	885	975	GSTWWPAD*AQL*LHLPTRCM AECWEIPA
22124	52492	A	22252	102	909	PGGRHGRQNDFAAPGGRLEARI HGTVSAPLYHRVLCRLGSRPA SAAGPAARGGDLAPGEHSFCE DGN YARVESVDRSAINRAMQN PRKSTASVCWTFTASDLPAQGV \PRTSSTRTLREDPFPPSAEKWL RAVLHHFVNEKLQQIFIETLKP SRRSMSGRHPLDSNPVLQQQGR CDLIENKLSPPGIMSVLDDVCP CTPRAGEQTRHCCRTAGGCGD PRAFQQLERRFVIHHYAGKTHR PLPGLTPTGNSTNARNIVMDTQ QRTGNN
22125	52493	A	22253	48	112	
22126	52494	A	22254	1243	1615	YSPSSWFSNLYQPSTGALSSSET PKDMAPMKSLREVRSQSHTSTL SRRSTSPGFRLNTKVSFHTGFSV AFTVRVFCFVRFRGSGMSFSFT* GSERPLGSIGIRLRASPTVTWISS AVGARISSC

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22127	52495	A	22255	468	1431	SVSTTRSFSVDSSAKTAAMPVT VTRTTHHNHPDVIFGAWGPP*S WGPLWALTQPLGLLRLLQLV STCVAFSLVASVGAWTGSMGN WSMFTWCFCFSVTLHILVELCG APGPFPPWSWR\NFPNTFACYA ALFCLSASIIYPTTYVQFLSHGR\ SRDHAI AATFFSCIACGCYATE VAWTRARPGEITGYMATVPGL LKVLETFVACIIFAFISDPNLYQ HQPALWCVAVYAICFILAAIA ILLNLGECTNVLPPIPFPSFLSALA \FCLSSSMPPPLFSGPSTSSMRSM AASLGAREM*AAAAGMPTTW VPGTADWLRPS
22128	52496	A	22256	98	414	CTRVSAEKTSVCLFGLYWESL SISSSCSSAKWPFSTIRSASSTT RHLSRRFLK**CFSLINSHSRP GVATTISGRRFSILCCFCVDIPPT KIAVLIPVNLAT
22129	52497	A	22257	2	224	
22130	52498	A	22258	2	115	
22131	52499	A	22259	2	118	
22132	52500	A	22260	472	648	GPGGRSFTVWWNW*RRMAQC P\PAEGVQRPECLGPHRAVPAP AHVGLHQEPSRLLPALH
22133	52501	A	22261	540	1893	GRCATPRPRWRGHQCDPPPGD VCVAWREMQLRNKKRRR\DLG NLIK\RFLTAPNSLPD/AVVLTTE EAVIFWCNVLAQQIFGL/PLEM MNEQPLEGAVREKALHTMREQ TQRMGLVKQL/LTLSKIEAAPT HLLNEKVDVPM/MLRVVEREA QTLVYNVNHTEPGTHITVRW QRVPHGAEFVVEE*SEGWPVPV PKPHRAVVGANAHISFCPPQEL SKRFTAIRKTKGDGNCFYRALG YSYLESLLPDAFQPLLPQAWV SPGESQGAGIRDPLWPVPVPKP HRAVVGANAHISFCPPQELSKR FTAIRKTKGDGNCFYRALGYSY LESLLPDAFQPLLPQAWVSPG ESQGAGTRDPLWLWLFRLWLL RLLCLLLLLLGETAQSRLALTW GRHKQGRRLARLSGILGFLALRK QWLGQQAQQLLQNLHLLLR WAGLGVIVFQVSNQPAWERTG
22134	52502	A	22262	1	1772	
22135	52503	A	22263	107	294	LHLLSFGYLTHQLLCLHLKWDS HTLHHSHTIAR*AGCSEATWS PPRRLRAPRSRALCSGFR

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22136	52504	A	22264	1	474	
22137	52505	A	22265	1	148	VKYHEFTCSFKKQITVPEDARL LK*DVRGRPSRLFLADPPPPHT VNREY
22138	52506	A	22266	509	2755	YQSQSFEDEMNQVTDWVDPS FDDFLECSGVSTITATSLGVNN SSHRRKNGPSTLÆSSRFARK\R GNLSSLEQIYGLENSKEYLSENE PWVDKYKPÆTQHELAVHKKKI EÆVETWLKAQVLGRQPKQGG SILLITGPPGCGKTTTLKILSKEH GIQVQEWINPVLPDFQKDDFKG MFNTESFHMFPYQSQIAVFKE FLLRATKYNKLQMLGDDLRTD KKIILVEDLPNQFYRDSHTLHE VLRKYVRIGRCPLIFIISDSLSGD NNQRLLVPKEIQEWSISNIRFN PWAPTMMKFLNRIVTIEANKN GGKITVPDKTSLELLCQGCSDI RSAINSLQFSSSKGENNLRPRKK GMSLKSDAVLSKSKRRKKPDR VFENQEVQAIGGKDVSLFLFRA LGKILYCKRASLTELDSPRLPSH LSEYERDTLLVEPEEVVEMSHM PGDLFNLYLHQNYIDFFMEIDDI VRASEFLSFADILSGDWNTRSL LREYSTSIATRGMHNSNKARGY AHCQGGGSSFRPLHKPQWFLIN KKYRENCLAALKALFPDFCLPAL CRQTQLLPYLALLTIPMRKSSFR FSFYSKDIGEGLPSGRRTLWGRI GKWEGLDRGTWDD*TPDSG DEA\QLNG\GHSAEESLGEPTQA TVPETWSLPLSQNSASELPASQP QPFSAQGDMEENIIEEDYESDG DIEASLLIRLLLHSFHFCFHFSGT
22139	52507	A	22267	2	161	
22140	52508	A	22268	1	599	VTRLFFQPGYGTLPQRLMPK KNR\IAIYE\LLFKÆGVMVPKK\ DVPIPKHPELA\DRNVPNLHVM KPMQ\SLKS\RGYVKÆEQFAWR HFYWYLTK*GYQGVSISSRDYL \HLPPEIVPCHPYGRSPSRLAR PSG*KVLEG*ANLRGLHKNGEA DKRLPTRRECLCHPGA\DKKAE AG\ALGSSNPNFQFRGGFGRGR GQ\PPQ

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22141	52509	A	22269	1	345	KHPELADKNVPNLHVMKAMQ SLKSRGYVKE\DY\HLPP\EI\VP TLRRSRPETG\RPRPKGLEGERP ARLTRGEADRDTYRRSAVPPG ADKKAEAGAGSATEFQFRGGF GRGRGQPPQ
22142	52510	A	22270	2	161	
22143	52511	A	22271	2	641	RRPQHRAC\FFFSPGTG\PC\SRRR CLMPKKNR\IAIYE\LLFKEG\VM VAKKDVHMP\KHPE\LAD\KNG APTFHVMKGHAGLSKSPRATV KGT\SAWGDIFYW\YL\TN*GY QGV\SISSRDYLSSCPREICCLAT ATARSPSKRLGKAFGLKRSWE GLRRPGEDFTRGGKFDRGYLT GRIAVATLVADKKAEAG\ALGS SNPNFQFRGGFGRGRGQPPQ
22144	52512	A	22272	1	1693	MFNSVPVQ\NEDGSFNFEGVKA EFRPGTQTQEYIKGMEDSASEV TVNREVTTDNPYTISVTNKTLS AIRIKMFMPRA\YELKVTVIKM AFELSTRCSKRLM/DGSFETVLT DVIEGKTMSGYDRSRRVNLPNF NNQVIFRVVRKTPDSNDSNVV DAIQVRSYAEVIDAKFRYPLTG LLFVEFDSKMFPNQLPTISIRKR WKIVNVPSNYDPESRTYNGNW DGTFKKAWTNNPAWVLYDLM INQRYGLDQKELGISVDKWAL YEAAQYCDQM\VLTA\KAARNL ATFVT/CIIQSQTDAPREPAYIFT NDNVVNGDFS\YT\SQARRACTR RAT*CLMMSKTCINRTLSQYSI/ V/EGHSTVR\NNVTSITAIG\AHV EA/KANRRGRWILKTNLRSTTV NFATGLEGM\IPTIGDVVAISDNF WSSNLTMNLSGRLL\EVSGSQIF LPFRVDARAGDFIIVNKP\DGKP VKRTISSVSADGKTIEINIGFGFP VKPNTVFAIDRTDLALQQYVVT KIDKGDDDEEFT\SKSRRWSTIL ISTMKLITGLTSTTDRQASLSQI R/CPKPENVK\CPQSRESSRG

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22145	52513	A	22273	1	1843	MEDNLSINKIKILLSVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTVLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAQAQYCDQMVLTA ARNLATFVT/CHQSQTDAYKVV RDICSIFRGMSFWNGPREPAYIF TNDNVVNGDFSYSQARRACT RRAT*CLMMSKTCINRTLSQYS I/V/EGHSTVR\NNVTSITAIG\AH VEA/KANRRGRWILKTNLRSTT VNFATGLEGMPTIGDVVAISD NFWSSNLTMNLSGRLLLEVSGSQ IFLPFRVDARAGDFIIVNKPDKG PVKRTISSVSADGKTIEINIGFGF PVKPNTVFAIDRTDLALQQYVV TKIDKGDDDEEFT\SKSRRWSTI LISTMKLITGLTSTTDRQASLSQ IR/CPKPENVK\CPQSRESSRG
22146	52514	B	22274	1	1452	

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22147	52515	A	22275	1	1902	MIQKVISGSKGGSQKPHNPVEM EDNLISFNKIKILLAVSDGEIDET FSLKQLMFNSVPVQNEGDSFNF EGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLAISIRIKMFMPRIAYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKNVNAPSNDPESRTY NGNWDGTFKKAWTNNPAWVL YDLMINQRYGLDQKELGFSVD KWALYEAQYCDQMVLTA AARNLATFVT/CHQSQTDA PAYIFTNDNVNGDFSYSQA RRACTRRAT*CLMMSKTCINRT LSQYSI/V/EGHSTVR\NNVTSIT AIG\AHVEA/KANRRGRWILKT NLRSTTVNFATGLEGMPTIGD VVAISDNFWSSNLTMNLSGRLL EVSGSQIFLPFRVDARAGDFIIV NKPDKGPKVRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFTS KSRRWSTILISTMKLITGLTSTT DRQASEVKPVNFTSSRHQAQPE VGLIPPLWPQKGIIAQTSKSS
22148	52516	A	22276	1	675	
22149	52517	A	22277	155	700	SGVLVGHALTARQPSSGRRLV VDHSANRRGRWILKTNLCSTT VNFATGLEGMPTIGD/GDFIIVN KPDGKPKVRTISSVSADGKTIEI NIGFGFPVKPNTVFAIDRTDLAL QQYVVTKIDKGDDDEEFT\SKS RRWSTILISTMKLITGLTSTTDR QASLSQIR/CPKPENVK\CPQSRE SSRG

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22150	52518	A	22278	1	1871	MEDNLSINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTDDNPYTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS\ IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAQAQYCDQMVLTA ARNLATFVT/CIIQSQTDAKVV RDICSI FRGMSFWNGESISVIID RPREPAYIFTNDNVVNGDFSYT\ SQARRACTRRAT*CLMMSKTCI NRTLSQYSI/V/EGHSTVR\NNVT SITAIG\AHVEARPTDCGRWILK TNLRSTTVNFATGLEGMPTIGD VVAISDNFWSSNLT MNLSGRLQ EVSGSQIFLPFRVDARAGDFNIV NKPDAKPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFTS KSRRWSTILISTMKLITGLTSTT DRQASLSQIR/CPKPEENVK/CPQS RESSRG

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22151	52519	A	22279	3307	5305	CRSSQNTQETSPDRALLVNLRP SQGPLLALWVPAEGVGGKGHC LPPRSFFRMDNQLVPAVSDGEI DETFSLKQLMFNSVPVQNEDGS FNFEGVKAEFRPGTQTQEYIKG MEDSSSEVTVNREVTDDNPTYI SVTNKTLAISIRIKMFMPRAAYEL KVTVIKMAFELSTRCSKRLM/D GSFETVLTDVIEGKTMSGYDRS RRVNLPNFNQVIFRVVRKTPD SNDSNVVDIAQVRSYAEVIDAK FRYPLTGLLFVEFDSKMFPNQL PTISIRKRWKIVNVPSNYDPESR TYNGNWDGTFKKAWTNNPAW VLYDLMINQRYGLDQKELGISV DKWALYEAQYCDQMVLTA KAARNLATFVT/CHQSQTDAYK VVRDICSIFRGMSFWNGESISVII DRPREPAYIFTNDNVVNGDFS T\SQARRACTRRAT*CLMMSKT CINRTLSQYSI/V/EGHSTVR\NN VTSITAIG\AHVEA/KANRRGRW ILKTNLRSTTVNFATGLEGMPT IGDVVAISDNFWSSNLTMLNSG RLLEVSGSQIFLPFRVDARAGD FIIVNKPDGKPVKRTISSVSADG KTIEINIGFGFPVKPNTVFAIDRT DLALQQYVVTKIDKGDDDEEF T\SKSRRWSTILISTMKLITGLTS TTDRQASLSQIR/CPKPENVK\CP QSRESSRG
22152	52520	A	22280	3	412	PAAVA*VKTEPETPGPSCLSQE GQTA\VKTEESSELGNVVIKIDH LETIQQLLTAVVKKIPLITAK\W QRAMTMRKVLQEILEKNPRFH HLTPLKTKHIAHWCRCHGYTPP DPESLRNDGDSIEDVLTQIDSEP
22153	52521	A	22281	2	513	IFACWGGKQAWPACCNSLRGQA VKGNNQLLPVSLVKKRTTLAPNT QTASPRALADSLMQLARQVSR LE/QRAKREPENEEVDILSLSE PVKINIKKEQEEKQEEVKFYLP TPGSEFIGDVTQKRLEEV DSTFG DDL VQGFSGGISRRYGEKPGVQ DLEVEPDSVTEMLQFYD

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22154	52522	A	22282	1	1197	MAWPCISRLCCLARRWNQLDR SDVAVPLTLHGYSDDLSEEPGT GGAASRRGQPPAGARDSGRDV PLTQYQRDFGLWTTAGPKDPP PGRGPGAGGRRGKSSAQSSAPP APGARGVYVLPIDADAAAAV TTSYRYGLGRDRNESPPCGGRT RRPGARGMGWAAERRRLEPGS HATSELPAASEVTPVWSVGTA GGAFAAPCPETVLEHPRAGSAP LPSQPPSWGQPSWPAFSRVGT GLPLTPTAGPSRARGARRPCPP ALPGHCLLDRTYTGLQTLGAET LLAVVNSAAMNVGVQVVDVE LHRHSLGEDCIYPQSSESDISDA PPSLPLTIPAPVKASSPIKQSHEP VPDTSVEKGS\PGSCPFHL*GPL SHLGSSPGFLLWRPPGLLSSVA
22155	52523	A	22283	131	677	PSSLS/CDIFLRSPISTPSPSPLPRT PTSTPVHVKQGTAGSVINNPYV IMDKQPGQVIGATTPSTGSPTN KISTASQISQGTGSPVPIHGSFF VTSTVKVIKQEPGEAPHVPAT GAASQSPLQYVTVKGGHMA VSPQKQVITPGEAIAQSAKVQP SKVL/GQIG*CLPTLARADLLYS
22156	52524	A	22284	3	5128	LLKIHSSQSSPQAVLTIPSQLK PLSVNTSGGVQTILMPVNKVVQ SFSTSKPPAILPVAAPTPVVPSS APAAVAKGEDASCFSAKSVEQ YYGWNIGKRRAAEWQRAMTM RKVLQEILEKNPRFHHLTPLKT KHIAHWCRCHGYTPDPESLRN DGDSIEDVLTQIDSEPDHGS LG DGKSSSVGPTAVVTLLACHLEC PSSFSSADNLCKLEDLQQFQK REPENEEVDILSLSEPVKINIKK EQEEKQEEVKFY
22157	52525	A	22285	112	651	GGLCTMARTKADWPANRTGG KAPRKQLAYKKPASQECGPLT GGVKKPHRYRIPGTVGGSVKFR R\YQKST\ELLIRKLPFQ/RRLVR EIAQGL*NKILRFQSAAGALQE GKWRPNLVWPFLKDTNLVC*S MAKRVTIIAKKTFQLAPPHTVE NRALRIHSMGKHFISQKKKK NFSSSCYW
22158	52526	A	22286	1	339	

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22159	52527	A	22287	2	1369	EPAPPARRSLSAAAAASGTTVD TASHSLVFSQQ\LNMQREIGFRV NCTVAM*DVYFKAHRAVLA AF SNYFKMIFIHQ TSECIKIPTDIQ PDIFS YLLHIMYTGKGPKQIVD HSRLEEGIRFLHADYLSHIATE MNQVFSPETVQSSNLYGIQISTT QKTVVKQGLEVKEAPSSNSGN RAAVQGDLPQLQLSLAIGLDDG TADQQRACPATQALEEHQKPP VSIKQERC DPESVISQSHSPSPSE VTGPTFTENS VKIHLCHYCGER FDSRSNLRQHLH THVSGSLPFG VPASILENDLGEVHPLNENSE ALECRRLLSSFIVKENEQQPDHT NRGTTEPLQISQVSLISKDTEPV ELNCNFSFSRKRKMSCTICGHK FPRKSQ LLEHMYTHKGKSYRY NRCQRFGNALAQRFQPYCDSW SDVSLKSSRLSQEHLDLPCALES ELTQENVDTILVE
22160	52528	A	22288	363	947	STARRGKSRSRPAVALQRQPSA ASRSPSSRRRRGVSKSVPLA RTKQTARKSTN\GK\APRKQLA YKKPARKSA\ PSTGGVKKPHRY RPGYCGRSVKFRR\YQKSH*DF* FRKL PFQAVWVRENLLKDF*K QILRF\QSRSYRVALQGGQVEA LSGVGLF*KTTNLLC*SMPKRV NNYCQKDIPAKHARIPWRTVL
22161	52529	A	22289	1	92	
22162	52530	C	22290	10	198	
22163	52531	B	22291	74	205	

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22164	52532	A	22292	2	1914	RGHCEPSRAAPSRADRH PASAL ARDPGRRRGPAGQAAPQPMEP ENIVANTVLLKAREGGGGRK GKSKKWRQMLQFPHISQCEEL RLSLERDYHSLCERQPIGR\LF* EFCATRPELSRCIAFQDGM AEY EATPDEKRRKACGRRLMQNFL\ S HTGPD LIPEVP\ RQLVTNCTQRL EQGPCKELSQELTRVTHEYLSV APFADYLD SIYFNRF\ QGKGLE REA\TKNTLRQYRVLGKGGFG EVCACQVRATGKMYACKKLE KKRIKKRKGEA\MSLNEKQILE KVNSRFVVS LA YG\YETKDIAL CLVLTLMNGGDLKFHIYHMGQ AGFPEARAVFYAAEICCG\EDL HRERIVYRDLKPENILLDDHGH RISDLG\LA VHVPEGQTIKGRVG \TVGYMAPECLKNERYTFSPDW WALGCLLYEMIAGQSPFQQRK KKIKRE\EVERLVKEVPEEYSER FSPQARSLCSQLLCKDPAERLG CRGGSAREVKEHPLFKKLNFKR LGAGMLEPPF\KPDPQAIYCKD VLDIEQFSTVKGVELEPTDQTF YQKFATGSVPIPGKNEQMVET ECFQELNVFGLDGSVPPDLDW KGQPPAPPKKGLLQRLFSSPKD CCGN\CS DSEELPYPLAPSPRP
22165	52533	A	22293	102	403	
22166	52534	A	22294	1086	1436	
22167	52535	A	22295	965	1231	
22168	52536	A	22296	1434	2215	TPSFSLRTGVNKEHWVLLGFST EDGRW\MFTRGGE\ DCTARIWD LRSRNLQCQRIFQVNAPINCVC LHPN\QAEIIVGDQSGAIHIWDL KTDHNEQLIPEPEVSITSAHIDP DASLHGQLFNSTGNCYVWD\LT GG\IGDEV TQFIPKTKIPAHTRY ALQCRFSPDSTLLATCSA*LRR/ CKIWRTSNFSLMTEL\SIKSGNP GE\SSRG\WMWGCALIGGTSPNI VTASSNNLARLWCVKTGEIKRE YGGHQKAVVCLPFND SVLG
22169	52537	B	22297	158	385	

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22170	52538	A	22298	145	1232	LPVRAEPTRAAAMSGDEMIFDP TMSK/NMKKKKKKPFMLDEEG DTQTEETQPSETKEVEPEPTED KDLEADEEDTRKKDASDDLDD LNFFNQKKKKKK\TKKIFDIDEA \EKGVKDL\KI*SDVQEPTEPED DLDIMLGHHKKKKKNVKFPDE DEILEKDEALEDEDNKKDDGIS FSNQTGPAWAG\SERDYTYEEL LNR\VFNIMREK\NPGYWLPGG RKRKFGPWKPPQV\VRVGTKKT FFCPLLQDICKLLHRSQAQSF FLLG*IGVPSGSIDG**PNL*SKG RF\QQKQIENVLRRY\KEYVTC\ HTC\RSPDTIL\QKDTLLFPYS AETC\HSRCFCWPVFKTGLPQA VHGQSRGTAPVPA
22171	52539	B	22299	50	319	
22172	52540	A	22300	3	235	LLLYPLRSLPENPLRLVQQIYSF LKGSSEK*NDLPRVPLLELGVG LLPPNQYSCSRAKPLTCGLTM SLDGAQQGFW
22173	52541	A	22301	3	2849	WAKPVARASPAAPVGRQCQIR GAWSWGEGRGQGPAPSPAGS PATSEESLAPMAWRCPRMGRV PLAWCLALCGWACMAPKGTQ\ AEESPFVGNP\GNITGARGLTGT LRCQLQVQGEPPVHWLRDGG ILELADSTQTQVPLGEDEQDDW IVVSQLRITSLQLSDTGQYQCLV FLGHQTFVSQPGYVGLEGLPYF LEEPEDRTVAANTPFNLSCQAQ GPPEPVDLLWLQDAVPLATAP GHGPQRSLLHVPGLNKTS
22174	52542	A	22302	3364	3899	LVFLFDDLIGIVELVLPGNIVHGI MSVRPRVAAGLRVRLQPGRRW LRGPLQLGAPLGLDLLVDVPGS PRFVVGVPLVVEAPRPPTPP AAAQQARS*GLECPGRGAAAP REV\HLQTAHIHGPGPRGGPR ARPLPGLCPP*T/FSCQEAKEGE RGGAHNSGGSGSKWPPPPPPPS

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22175	52543	A	22303	1660	4652	PNPNTCLCNHVESGPCCPSTHT YTLTDLQPLFGVRVPTRPSSGRG TQAEESPFVGNPGNITGARGLT GTLRCQLQVQGEPEVHWLRD GQILELADSTQTQVPLGEDEQD DWIVVSQLRITSLQLSDTGQYQ CLVFLGHQTFVSQPGYVGLLEGL PYFLEEPEDRTVAANTPFNLSC QAQGPPEPVDLLWLQDAVPLA TAPGHGPQRS LHPGAAVGAW EGGSRLWLRAP EAGKRWGG E VPPVTHAGAGMLR SERD
22176	52544	A	22304	54	288	SEAGQAQPA AAVGVFWTGRRA WETGEGYYSNSLSMELQL*RQ CI*DCFFSSSWRCSVPVYFKEEK YKGNLVCLLFFK
22177	52545	B	22305	243	2641	
22178	52546	A	22306	35	204	
22179	52547	A	22307	244	424	PSLFKNIMTFYPNLHFLWCRGR LYLDVWRQ/VR*FVRNTNYQLP LVLHNLLSRFNTFDEL V
22180	52548	A	22308	1	477	
22181	52549	A	22309	2	418	WYQHLLLMRASGSFQSWWKV KGEPAYHMANRP**SLISLRTK AKTGA*LFDYFVPHFIRKN*SLF TIAKAWNHPKCTSVTDWIKKM WYIYTMEYYAVTRRNKIVSFA ET*MELEVIIVSKLTQE QKTKHC MFSLTSGS
22182	52550	A	22310	30	199	
22183	52551	A	22311	547	682	LVFLTNQRLVSTHQGTWWE*K *CQPVIPSL*FYFLRKFSVIVIW* *LLILP*HPMALKI/C/CCQAACS GHFTAGTGEITRPCSIS SKVLKR LSRL*STSGS**LVFLTNQRLVS THQGTWMKLEA ILSKVTQE QK TKHHMLSLRSGS
22184	52552	A	22312	2	194	CPSMIDWLKKMWHRYTMEYY AA\IKKNEIMS\FAGTWMKLEAI ILSKLTQE QKN\KHCMFSLITGS
22185	52553	C	22313	1	1845	

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22186	52554	A	22314	1	1384	MRFDRTWQVPYPSQCSWGSS RQGYVPQARGIVLDSQEAYPSP GGTTLCMHDPDKQAPG/PVRRP APGN\PNRLVVSVALQFLTFHES GITSALRVRPLPQSV\SFQGGPGC TEA*RRASICRRRV*S*HSTKLDL GAVAAQQQAWVAG\PRSPQRR CHQYS*AGPAWLGLQRGRGSH RPDTSPWHWFALAGREEQVL PPESLL/RARTPGTHLAPGPGA* TRVQSGPGSWLTWAG*GTPQVI SS/PGAGAVGAPETTAVPTVSIA PRRSVEMWPETKEHLVAVARR KWVSAQEKRLSLRGCGSEKMG VSPGETRVYFPALTSRCRRRCG RVSEPSPTASWAPAPSLGWAYQ LAGGRLVLRVGLSAGWRAACP QGGPISWLEGLSSGVGLSAG WRAACPQGGPISWLEGLSSST MRQPRAPQSSLPAPAPWGAPDP LAMLAAWIEARPGVWPTQPGP WQVSWVCV
22187	52555	A	22315	11	431	RHLLAAPPAPPAAAAAALSH CLRSSGRLAPHTSRRLPRVVKR RVNALKNLQVKCAQIEAKFYE EVHDLERKYAVLYQPLFDKRF EIINAIYEPTEEECEWKPDEEDEI SEELKEKAKIVDEKK\DEEKEDP KGIPEFW
22188	52556	A	22316	64	467	PAAWLPILVAARQLTVQMMQN PQILAALQERLDGLVETPTGYIE SLPRVVKRRVNALKNLQVKCA QIEAKFY\EEVHDLQRKYAVLY QPLFDKRFEIINAIYEPTEEECE WKPDEEDEISEELKEKAKIEDE
22189	52557	A	22317	2	177	
22190	52558	B	22318	228	377	
22191	52559	A	22319	630	767	WRVKFKNTVKIQANF*KSRFIH LTVVPVTILSQVTLQLTMSPKT

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22192	52560	A	22320	80	1362	VTACAAPAAWLPILVADIWSSY NMADIDNKEQSELDQDLDDVE EVEEEETGEETKLKARSA*LFR MM\QNPQILA\ALQERLDG/LW VETPT\GYIESLP\RVVKRR\VNA LKNLQVKCAQKETQ\FYE\EVH DLERKYAVLYQPLFDKRFEIIN AIYEPTEEECWKPDEEDEISEE LK\EKGGQIEDEKKDEEKEDPKGI P*IWLTVFK\NVDLLSDMVQEH DEPILKHLKDIKVKFSDAGQPM SFVLEFHFEPNE\YFTM\EVLTKT YRMRLEPEPDDSDHFSFDGQEI MGCTGCQIDWKKGKNVTLKTI RK*/RRNHKGRGT\VRTGH*NQ FPNDSFSNFFCPLLKSPESGDLD ED\AEAILAADFEIG\HFL\RERI PRSVLYFTGEAIEDDDDDYDEE GEEADEEGEEEGDEENDPDY\D PKK\DONPAECKQQ
22193	52561	A	22321	3	425	GCGCGGAAARGSPAPGRPAAS PPDCPLWLQGCYPPPSCDALSA TEADGCD*IYPPDTSRDGPHQA SLPGESSFPGQPND SYLPERGS ERSRQASYATPAAETQDPDEGL PQPGPEALPGGLQVPKSAAPFC GAQHAAGQ
22194	52562	A	22322	2	285	SRFEPRVRPTGGDRPHQASPPG DSSSFPGQPND SRLPECGSECRG QASYATPAAETQDPE*RSSPTRS *SP\PGGFQVPKSAAPFCGAQHA AGQ
22195	52563	A	22323	85	473	FTMPAVALVPKELYLSSSLKDL NKKTEVKPEKISTK/QDYVHSIL GTANIKKAIEEAERLSESLKLR YKEAEVRK*LEEKDRQKEAQQ LQQKRQETGRE\DGGLAKVSLE NVLDYQDKTQKSNGEKSEKM

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22196	52564	A	22324	1	1449	MMRAHMFVYKELKQIYKKKT HPHQKVGKGYKQTLRGRHLR GQETYEKKLTHVYETDFFKQQ QYYFHSILGPANIKKATGETER LSESLKLRYYEEVEIWKKLEEKD RQGEAQWLQQKRQETGREDGS MLAKGSLEIVLDSKDKTQKSN GEKNEKCETKEKGAIKAKELYT MMMDKNISLIIMDAQRMQDYQ DSCILHSLSVPEKAISPGVTASW IEAHLRDDSIDTWKKRGNVEY MVLLDWFSSAKDLQIGTTLWH LKDALFKWEKGGYKNWFLCY SQYTTNAKVTPPPQHNEELSS LDFTYPSLEESIPSKPAAEMPPP PIKVDEIDIELISDQISDNDQNER TGPLNISIPVESVAASKSDVSPH QPVPSIKNVPQIDHTKKLAVKL PEEHIKSESTNHEQQSPQNEKV IPDCSTKPVVSSPTLMLTDEEKA HIHAETALLMEKNKQEKELQE RQQGKQ/K/EKLRREEHEQKAK
22197	52565	A	22325	185	2983	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECRLDRDEERAYVLYM KYVTVYNLIKKRPDFKQQQAD CAYFLGQTVHILFQHRALLEKK YRAVGAIKAKELYTMMTDKNI SLIIMDARRMQDYQDSCILHSL SVPEEAISPGVTASWIEAHLRDD SKDTWKKRGNVEYVVLLDWF SSAKDLQIGTTLRSLKDALFKW ESKTVLRNEPLVLEGGYENWL LCYPQYTTNAKVTPPPR
22198	52566	A	22326	313	3720	FIMPAVASVPKELYLSSSLKDL NKK\TEVKPEKISTKSYVHS/AP RKIFKTAEECRLDRDEERAYVL YMKYVTVYNLIKKRPDFKQQQ DYFHSILGPGNIKKAVEEAERLS ESLKLRYEEAEVRKKLEEKDRQ EEAQLRQKQKQETGREDGGTL AKGSLENVLDSKDKTQKSNGE KNEKCETKEKGAIKAKELYTM MTDKNISLIIMDARRMQDYQDS CILHSLSVPEEAISPGVTASWIE AHLRDDSKDTWKKR

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22199	52567	A	22327	46	562	LLQGPFGCGDSMPVEARPSAA WRGGRAPGWTPFSPPDRETWK PQ/RASQGESGQRRFGPCPRSGG RPPGPGSAAHSSRSQRWRKASR AWPAAPRKGLLPQAQAWPPTP AAGL*GFLAACKR/PPVGGRRGP APAPCRPASSRCFLICDSGPPCL CSASRAAWMGSAASSRVLFIEG
22200	52568	B	22328	51	445	
22201	52569	A	22329	51	366	CQWNTQTQVCYKQDVQSITAL GSAAQCTCLSSPR*SGKFKLLFS PGLPGTLVPSTIPATSAPRA/SHR AGEAWVGEPGRALAALQNSS\PD WAGYQGLPCKPSIRAA
22202	52570	A	22330	257	916	SPSGSNLETHLRAPDLGGPCPP GPRWWA*TPQPGHPQTRPSAA QPCPFPPQCQQLIHCP/SPAPGT VAAPPAP\PTPASQCLLCPWTS PVCSPAPTFPCMAPVMAFMLP SYSFP/PGTPNLQAFFPSQPQFP SHPTLTSEMASASQ\GSPAGPR SPDSHVLVQPPGPPHHRPWVGP PHRSFSPAAARPCSSTCCSWRK PLRVALEPWGPQGPQRQQL
22203	52571	A	22331	151	1232	GRLGDARGPQGPEAPGGEEAA RADSTRACRSCGLLLGRRGCR PSLKNAELLELTVRRVQCVLRG RAREREQLQAEARRALRCRLHP VACTKVHTFVSTCQAIDATVA AELLNHLLSMPLEGGSSFDL LGDALAGPPRAPGRSGWPAGG APGSPISPPGPGDDLCSDEEA PEAELSQA/PC*GARLGARSPGQ PDHSPNCPGVSGGLGDQCQPES CRGGARPSLGSPPLLPGVQMW WG*GPGSLPGSSLPLMDGLQG QPLVTSPAQRPSVS*KNF*GPC SSGSWREGATGRRKNFVELP ALSQVSPSPAFNPRCLGLWGQR WQKLVLGTSVPGSPGLNKSLN LPLQRGDERQVH
22204	52572	A	22332	1	1524	

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22205	52573	A	22333	3	8875	EDGSLLQEVGIIICLARGPGCGPE TPLYSPATGLALQLQGPAAMG ALWSWILWAGATLLWGKSG EDWISGPTTVFSQPGLTQEASV DLKNTGREEFLTAFLQNYQLA YSKAYPRLLISSLSESPASVSILS QADNTSKKVTVRPGESVMVNI SAKAEMIGSKIFQHAVVIHSDY AISVQALNAKPDTAELTLRPIQ ALGTEYFVLTPPGTSARNVKEF AVVAGAAGASVSVTLKGSVTF NGKFYPAGDVLRV
22206	52574	A	22334	2	2214	ISATDGPLAPCHGLVPPAQYFQ GCLLDACQVQGHPPGLCPAVA TYVAACQAAGAQLGEWRRPDF CPLQCPAHSHYELCGDSCPVS PSLSAPEGCEACREGCVCDAG FVLSGDTCPVPGQCGCLHDGR YYPLGEVFYPGPECERRCECGP GGHVTCQEGAACGPHEECRL DGVQACHATGCGRCLANGGIH YITLDGRVYDLHGSCSYVLAQ VCHPKPGDEDFSIKNAAGD LQRLLVTVAGQVVS LAQGQV TVDGEAVALPVAVGRVRVTAE GRNMVLQTTKGLRLLFDGDAH LLMSIPSPFRGLCLCGNFNG NWSDDFVLPNGSAASSVETFG AAWRAPGSSKGCGECCGPQGC PVCLAEETAPYESNEACGQLRN PQGPATCQAVLSPSEYFRQCV YDLCAQKGDKAFLCRSLAAYT AACQAAGVAVKPWRDTSFCPL HCPAHSHYSICTRTCQGSAAAL SGLTGCTTRCFEGCECDDRFL SQGVCIPVQDCGCTHNGRYLPV NSSLLTSDCSESCSSSSGLTC QAAAGCPGGRVCEVKAERIN CWAATRGLCVLSVGANLTTF DGARGATTSPGVYELSSRCPL QNTIPWYRVVAEVQICHGKTE AVGQVHIFFQDGMVTLTPNKG VWVNGLRVDLPAEKLASVSVS RTPDGSLLVRQKAGVQVWLGA

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22207	52575	A	22335	3	7639	ITCPENSHYEVCGPSPASCPSP APLTTTAVCEGPCVEGCQCD GFVLSADRCVPLNNGCGCWAN GTYHEAGSEFWADGTCSQWCR CGPGGGSLVCTPASCGLGEVCG LLPSGQHGCQPVSTAECQAWG DPHYVTLDGHRFDFQGTCEYL LSAPCHGPPLGAENFTVTVANE HRGSQAVSYTRSVTLQIYNHSL TLSARWPRKLQVDGVFVTLPF QLDSLLHAHLGADVVVTTTS GLSLAFDGDSSFVRLRVPA
22208	52576	A	22336	2	224	HCYMVVQLWKPRSLRRKSDQL WSSWNQLNTSELSSFISAEMQT EAFDCGSMAGRM*QGGRYLLA ALWDSSVPLS*PQAEPWSGVGP AHLTE/LLSPSRFVSISDLLAPKD LGTESQVSMEV*KDMGRFHWE DIPP*A*VFVIFVFQIFISRTY\DA TTHFETTCDDIKNLL*R*QGRYL LAALWDSSVPLS
22209	52577	A	22337	2	206	LSSSYLDQPCYETINRIKLYSES LARYGKSPYLYPLYGLGELPQG FAR*EPVFKTSVIQNLIFNIMCI
22210	52578	A	22338	2	457	
22211	52579	A	22339	2	1556	FVFPSEVAVGLALSPASIFLSFSS PFLRAQERLPSLLWWARSPCAF SLLGSCVRACPAMNEEYDIV\A LGTG\LTECILSGIMSVNGKKVL HMDRNPYYGGESASITALEDL YKRFKIPGSPPRVKWGEERDW NVDL\IPKFLKANG\QLVKMLL YTEVTRYLDKVFTEGSFVYKG GKIYKVPSTEAEALASSLMGLF EK\RRFKEFLVYVANFD\EKDPR TFEGIDPKKTTMRDVYKKFDL GQDVIDFTGHALA\LYRTDDYL\A DQPCYETINRIKLYSESLARYG KSPYLYPLYGLGELPQGFARLR CYLWEGTYMLNKPIEIIVQE WGKVIGCKI*REEIARCMQLIC DPSYVKDRVEKVGQVITVICIP QPPPSKNTNDANSC\QIIPQNQ\A VNRKSDIYVCMISFA\HNVAQ GKSIAIVSTTVET\KEPEKEIRPA L\ELL\EPIGTEILVSISDLL\VPKD LGTESQIFISRTYDATTHFETTS D\DIKNIYKRMTGSEFDFEEMK
22212	52580	A	22340	66	420	
22213	52581	A	22341	64	140	
22214	52582	A	22342	2	254	

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22215	52583	A	22343	82	3530	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKA DLSEKPTI/KWF/K/GK WMDLAS KAGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEV TYK DKFDSCSFDLEVHESTGTT PNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQQEEEPQVDVWEL LKNTKPSEYEKIAFQY/GITDLR GMLKRLKRSI
22216	52584	A	22344	66	358	TWVRGNPKPKITWMKNKVAIV DDPRYRMFSNQGVTLEIRKPS PYDGGTYCCKAVNDLGTVEIE CKLAEVKVIYQGVNTPGQPVFL EGQQQSLHNKDF
22217	52585	A	22345	67	3515	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKA DLLRKPTIKWFKGKWMDLASK AGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEV TYK DKFDSCSFDLEVHESTGTT PNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQQEEEPQVDVWEL LKNAPSEYEKIAFQYGITDLR GMLKRLKRMREEK
22218	52586	A	22346	2	39	FQFCVSLFVYIQLNSDVLPE*PR HKKKPPTLSHWFLK*NLHL*N* NTKALKYRKL V*LT SQKH*QM TYPFCNYLKT N*VTTNTKVK*T EGY*TAKTQKLYPDKVVMATN KPLKTRSPK\PAKYGSPHDTAT WTGSGLGLEAS*HSA
22219	52587	A	22347	1	113	
22220	52588	C	22348	47	337	
22221	52589	A	22349	1	2292	
22222	52590	A	22350	2	441	LRHAKWFQARANGLKSCVIVIR VLRDL\VTRVPTWGPLRGWPLE LLCEKSIGTANRPMGAGEALRR VLECLASGIVMP/QHALRLAAF GQLHKVLGMDPLPSKMPKKPK NENPVDYTVQIPPSTTYAITPM KRPMEEDGEEKSPSKKK

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22223	52591	A	22351	45	402	HALAALEKLFDPDTPLALDANK KKRAPVPVRGGPKFAAKPHNP GFGMGGPMHNEVPPPPNLRGR GRGGSIRGRGRGRGFGGANHG GYMNAGAGYGSYGYGGNSAT QGYK*LFHKTAYGYS
22224	52592	A	22352	243	3113	FPDTTEEVKMRPMRIFVNDDRH VMAKHSSVYPTQEELEAVQNM VSHTERALKAVSDWIDEQEK SSEQAESDNMDVPPEDDSKEG AGEQKTEHMTRTLGRVVMR\VG LVAK\CLLLKGD\DL\ELVLLC\ KEKPTTALL\DKVADNLAI\QL AAVTEDKFEILQSVDDAAIVIK\ NTKEPPLS\LTIHLTSPVVREE\M EKVLGETLS\VNGPPGNVLD SRIAFAAFRGSLPETQRWFQ\AR ANGLKSCV
22225	52593	A	22353	139	245	
22226	52594	A	22354	875	2019	NPNSQMPKMTSTKQLTNKSG QIDGCPGCRVVPTWCRLGHL YWAVWASILRFWEVWKYWL NMGRKSSEFPILKLNG\RTMGD *VLPFHMYV\QPVV\HPQLY PHSVTELTGDYFKPWWDGQPS LQQVL\ERVDEWMAKEGLLAD PNVQVQFLFTLWEDWGLKKS VLPG\QCQ*LGAWPVGGFTSK QWD*S*KKAYSFAMGCWPKNG LLDMNKGLSLQHIGRPHSGID DCKNIANIMKTLAYGGFIFKQ TSKPVLI GRGQDGAGQGS LVGPPQNPPLPHQRGKRES GHKLCCPKVVPSASLWGS MPLGRGLCCPLQGALATW PFLEARHFCAPPSPTQSQPS ISPSHCGPGLRGTPGTHRL LPWYNRLWGHQDPRCAPSHP
22227	52595	A	22355	507	916	RKKNEKEGTKPPRNMGICEKT KPTFDWCT*K*RGWNQVGKY TSGYYTGELPQSSKTGQHSNSG NTENTTKILLEKSNPKTHNW*I HQQ*NEGKTVKGSQREK*GYP QREAHQTNSRSLCRNPTRQKRV GVNIKHS
22228	52596	B	22356	72	359	

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22229	52597	A	22357	1236	1987	GNSSPPGLPCKSSSSPPPPSLTG APARRAAAAPPRPASRPRPLA\ GGGVQQLFATRPP/PGPTRARRP TWR*GPRGSPEETPRRRREWTR RPEPGCRAQGSRRPARPPSGSS AVRSASPASSPAPAASAPLGPRS RWS*RPPSRPRR/SPPPPPGRSR SDRER/GRRKEASPLTLAEAPA Y/RQDQAPPPGSPHLGFQSAAG PSRTASSAP/RSGIGGRGANTPA PAAIFPPSLRPPRAGPVGDRLAS GVDAAA
22230	52598	A	22358	287	2082	LKTETSEEKARRYKDRPSQLNA VFQEQQKMIQAQESITLEDVAV DFTWEEWQLLGAAQKDLYRD VMLENYSNLVAVGYQASKPDA LFKLEQGEQLWTIEDGIHSGAC SDIWKVDHVLERLQSESLVNR KPCHEHDAFENIVHCSKSQFLL GQNHDFDLRGKSLKSNLTLVN QSKGYEIKNSVEFTGNGDSFLH ANHERLHTAIKFPASQKLISTKS QFISPKHQKTRKLEKHHVCSEC GKAFIKKSFLTQDHQVMHTGEK PHRCSLCEKAFSRKFMLTEHQR THTGEKPYECPECCKAFLKKS LNIHQKTHTEKPYICSECGKG FIQKGNLIVHQRHTGEKPYICN ECGKGFIQKTCLIAHQRFHTGK TPFVCSECGKSCSQKSLIKHQ RIHTGEKPFECSECGKAFSTKQ KLIVHQRTHTERPYGCNECGK AFAYMSCLVKHKRIHTREKQE/ CSQGGKSSCREAQLITHQ*CHA GEKLC*RGDYTSAFCGPSDIKH QRP/HSQNRN/CSPCGTASGQM CSLRR*QWICTGQKPCECSECG CAFRDQLCLILCYRKPIGRK\PD LCGKGLSKNL*FIMWPKSIHCE
22231	52599	C	22359	90	344	
22232	52600	A	22360	2	543	
22233	52601	A	22361	373	490	
22234	52602	A	22362	111	396	GAPPGIWCLSLWACRALSPLSS AAQHRKRPSALSPATPAGSRPL RRCAPGFAATKTQRVQRRPPRR *GAAAGAGGS*RPLCGVVIHSV LHNTPE

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22235	52603	A	22363	1902	3474	VPQRSTGSGRARSARRPLRAPD PCAAAPRVSPQPRPSECSGGRR GGSKTWAKRNAGKELTDRNW DQEDEAEVGTFSMASEEVLK NRAIKKAKR\RNVGFSDTGGA FKGFKRFGGYPSEERFSGFGS GAGGKPLEGL\SNGNNT\SAPP FASAKAAADP\KVAFGK*LPSPS RLLVDKNVSNPKTNGDSQQPSS SGLASSKACVGNAYHKQLAAL DCSVRDWMVKHANTNSLCDL TPIFK\DYEK\YLANIETANTGN\ SGRNSESESNKVAAETQSPSLF GSTKLQQUESTFLFHGNKTEDTP DKKMEVASEKKTDPSSLGATS ASFNFGKKVDSSVLGSLSSVPL TGFSFSPGNSSLFGKDTTQSKPV SSPFTKPLEGQAEGDSGECKG GDEEENDEPPKV\VTVEVKEED AFYSKKCKLFYKKDNEFKEKGI GTLHLKPTANQKTQLLVRADT\ NLGNILLNVLIPP\NMPCTRTGK NNVLIVCVNPPIDEKNA\TMP\ VTML\RVKTSSEDADELHKILLE
22236	52604	C	22364	65	283	
22237	52605	A	22365	3	419	
22238	52606	A	22366	1	512	CGRPPWKTGQRSQPSCPPGSSG SGRGIPPAAWHEGEGPEAVLQ GHRAGRGPACRGLCCLPSQL GGPTSPTSASRACGSRGAATL VVKVKWFYHP/CRRPSWARGS ATARMRCTSPATRMRTTCRPSP TSARSWRASSMSRWPGAASAR TGRTSTTGGHLRPHHRAPGDG
22239	52607	A	22367	1	2940	MRRRRKVAAIHAGPRPRSA SSEQRGRGPGAARRAGGA ASGVTGGGGGGAGQHAGGLG FSAGGRAPSQRPLCGSMPARLF SKQEVGYCGLPAPPASSLRSG HRQRIYSLNQLLQALRTGRAR PGEGPGWLVTDKGGLGWGSSH SQAQGPDSQAAWGRAPPAHGS SPAFLQVLDVRPQSSRYLPPGT RVCAIYWSQKSRCLYPGNVRA PPPCFGRLLGVPAASSGVPSTG ASGDEDEDLDSVVVEFDDGD
22240	52608	B	22368	215	356	
22241	52609	A	22369	282	499	YLLHCLPSDPPSFTNSPDGRGRR RRRQRRRRSDPPGRGRTKSSTR VPGSNRFV*FHQR*GRLKEWM ANQDTN

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22242	52610	A	22370	105	619	ACQASSHSGPVWGPGERITPG A*ASARREPSRNQHPNLWVTE Q/I*IASPRTVANPLVPARTPTGP RTNKP KHLIKQGRGQPRQPLSG STGGAGESPASGCAGGQPAHR VWIAPAARGCGQHTPWKAPAG NGQSPRPASATRMIGPSPSLSP APPAVVGVAALGSRNRCIL
22243	52611	A	22371	1	441	
22244	52612	A	22372	10	621	LRQLERGLAKGQPSTPVDRPLG PDPSAPGTLAGAALPPLEPPAPC LCQDPQEDSVEDEEPPGSLGLP PPQAGVQPA AAAVSGTTQPLG TGPRVSLSPHSPLLSPKVASMD AKDLALQILPPCQVPPPSGPQSP AGPQGLSAPEQQEDEDSEEDS PRALGSGQHSDSHGESSAELDE QDILAPQTVQCPAQAPAGGSEE T*LRQLERGLAKGQPSTPVDRP LGPDPAPGTLAGAALPPLEPP APCLCQDPQEDSVEDEEPPGSL GLPPPQAGVQPA AAAVSGTTQP LGTGPRVSLSPHSPLLSPKVAS MDAKDLALQILPPCQVPPPSGP QSPAGPQGLSAPEQQEDEDSE EDSPRALGSGQHSDSHGESSAE LDEQDILAPQTVQCPAQAPAGG SEETIAKA

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22245	52613	A	22373	1	2271	MPGELLAPSCCCRGGPTRDRTD LSCDAAAATTILGGDRREPCAL TPGPSHLALTFLPSKPGARPQPE GASWDAGPGLSTEAPLPATLE PRIVMGEETCQALLSPRAARTA LRDQEGWGL/SPQGSMDEREL HPAGTPEPPSSESSLADSSSSW GQEGHFFDLDFLANDPMIPAAL LPFQGS LIFQVEAVEVTPLSPEE EEEEAVADPDPDSASYAEADDE RLYSGEPHAQATLLQDSVQKTE EESGGLRYDTASAPTRHRSLSVS PKACSCSHDCAP\AG*RGPHLTP GLRYDTASAPTRHRSLSISPKAC GCSHDCVPAG*RGPHLTPGLRY DTASAPTRHRSLSVSPKACSCSH ACVPAG*RGPHLTPGLRYDSTS ASARHRPHLRSRASGCGHPSNL AGRSRLCPRDRACGHHSAGS/ SAWTGSMMSGSA\RHR*WG*A*L TPKGDPPG*EPAGRPEGTGT GTWTQPQGGLHGCQRPGLADL AALPSASSLWAPESWPS/SALS PRAARG*GQPGGRLASGPGLGP AFG*PRGVISRAGRAGHLGSSD RAVSSPGAQSREEGPSRRQ*GD HRQSQAESQ*EEGPKGNVKAG LAADSGSHQDHHPEVQEHPLC HRQA*CLQGDPASAHLCG\FWR GQ\T*GPCPASAQSR*EV*GAL R\DL SLGP*VST\QGP*G*A*VQG KGKG\GGGKGGPGGAGTA*HL
22246	52614	A	22374	2	211	
22247	52615	A	22375	43	241	
22248	52616	A	22376	184	332	
22249	52617	A	22377	1292	1923	KAGARGNQEGTMASSSG\TQK VLTIPRGCYQ*K*SKETLP*CSG WPNDAR\EAVVNCCTEF\HLIS SEANEICNKSEKKTISPEHVIQA LESLGFGSYISEVKEVLQECKT VALK\RRKASSRFGKPLGIPEEE\ LFGDQANKELFGKSLDQQQAE\ LAQQ\EW\LMQMQAA\HQA\QL AAASAKCI*SRRGSFSGMEEDG GWISEIPPAEFLFLL
22250	52618	B	22378	1	1701	
22251	52619	A	22379	1	147	

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22252	52620	A	22380	1	484	IRHEGRGQRGKMELVQ\VLKRG LQQITGHGG/LFRGYLRVFF\RT NDAKVGTLVGEDKYGNKYEE DNKQFFGRHRWVVYTTEMNG KNTFWVDVDSMVPEWHRWL HSMTDDPPTTKPLTA\RKFH LG RNH*ISTWTGAPQEQYVPYSTT RK\KIQEWIPPSTPYK
22253	52621	A	22381	3	258	DMAAQIAEGMAFIEERNYIHRD LRAANILVSDTLSCKIADFGLA RLIED\FTIKSDVWSFGILLTEIV THGRIPYPGMNPEVIQN
22254	52622	A	22382	1	738	
22255	52623	A	22383	233	1898	GAGPTGYLRRLPGWAGTMGC GCSSHPEDDWMENIDVCENCH YPIVPLDGKGTLLIRNGSEVRDP LVTYEGSNPPASPLQDNLVIAL HSYEPSHDGDLGFKEQGLRIL EQSV\EWKQSLTTGQEGFIP FNFVAKANSLEPEPWFFKNLSR KDAERQLLAPGNTHGSFLIRES ESTAGSFSLSVRDFDQNGGEVV KHYKIRNLDNGGFYISPRITFG LHELASAITPIASDGLCTR\LSRP CQTQKPQKPQKPWWEDWEV PRETLKLVERLGAGQFG\RCGW GTTTGTTKVAVKSLKQGSMSA GRLPAEANLMKQLQ\HQRL\VR LYAVVTQEPYIITEYMENGSL VDFLKTPSGIKLTINKLLDMAA QIAEGMAFIEERNYIHRDLRAA NILVSDTLSCKIADFGLARLIED NEYTAREGAKFPIKWTAPAI*S RGNSPPRSDVWSF\GDLLPEIFT\ HGRIP/YPQGIPNPELIQKLERGY RMVRP\SNCPKLYQL\MRLCW KERPED\RPTFDYLRVLEDFFK RHRRASNQPQALREPLRKPLCF
22256	52624	A	22384	3	203	
22257	52625	A	22385	2	467	
22258	52626	A	22386	1	468	
22259	52627	A	22387	1	645	

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22260	52628	A	22388	821	2637	AAASAWRATHSTTAAGRRTAL FRSPEPGNTRDTRRRRRATAPD CCRPATSPRALDWTSLHTRRHP VQNYLQWSYWQVLVSRWIAF AGLAMADYLISGGTGYVPEDG LTAQQLFASADDLTYNDFLILP GFIDFIADVDLTSAITRKITLK TPLISSPMDTVTEADMAIAMAL MGGIGFIHHNCTPEFQANEVRK VKNFEQGFITDPVVLSPSHTVG\ DVLEGKMRHGFSG\IPITETGTM GSKLVGIVTSRDIDFLAEKDHT TLLSEVMTPRIELVAPAGVTL KEANEILQRSKKGKLPVND CD ELVAIIARTDLKKS RDYPLASK DSQPQLLCGAAVD TREEDKYR LDLLTQAGVDVIVLDSSQGN SV YQY\ARVLYFKQKYPHLQV\LG GNVVTAAQAKNLIDAGVDGLR VGMGCGSICITQEVMACGRPQ GTCCVTR*AEYARRFGVPIIAD GGIQT VGHVVKALALGASTVM MGSLLAATTEAPGEYFFSDGVR LKKYRGMGSLDAMEKSSSSQK RYFSEGDKVKIAQGVSGSIQDK GSIQKFVPYLIAGIQHGCQDIGA RSLSVLRSM MYSGELKF EKRT MSPQIEGGVHGLHSYEKRL Y
22261	52629	A	22389	2	332	
22262	52630	A	22390	3	608	MTAVHAGHLNLKWDPKSLEIR TLAAERLVTQVTTLVNTNSKGP SDKKRGHSSKKVHVLAASVEQA AENFLEKEDKIVKESQFL*E*LL AAVEYVRKQ/GKECLRPSLEEH LEGIISGAALMGDSSCKHDDHR ERIAAECNTVLQACRTCF/SEY MGNAGCKERSNSLNSAIDKMT KKTRDLRRQLHKAVMDHVSDS FLETNVPLL
22263	52631	A	22391	2	2864	

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22264	52632	A	22392	14	2897	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGHLNLKWDP KSLEIRTLAVERLLEPLVTQVT TLVNTNSKGPSDKKRGHSKKV HVLAASVEQAAENFLEKEDKIV KESQFL*E*LLAAVEDVRKQG DLMKAAARRRSHDDPCSSVEQ GNMVQAA*TLLSAVTCLLILA\ DMGNVYKLLVQLKVVEDGILK LRNAGNEQDLGIQYKALKPEV DKLNIMAAKRQQELKDVGHRD QMAAARGILQKNVPILYAS
22265	52633	A	22393	1	1584	
22266	52634	A	22394	1	3519	
22267	52635	A	22395	3	673	
22268	52636	A	22396	1	1574	DVPRDLEVVAATPTSLISWDA PAVTVRYRITYGETGGNSPVQ EFTVPGSKSTATISGLKPGVDYT ITVYAVTGRGDSPASSKPISINY RTEIDKPSQMQVTDVQDNSISV KWLPS SSPVTGYRVTTTPKNGP GPTKTKTAGPDQTEM TIEGLQP TVEYVVS VYAQ\NPSGESQPLV Q\VAVPTIPAPTDLKFQVTPTS LSAQWALPNVQLTGYRVRVTP KERTGPMKEINLAPDSSSVVVS GLMVATKYEVS VYALKDTLTS GPAQGVVTTLENVSPRRARVT DATETTITISWRTKTETITGFQV DAVPANGQTPIQRTIKPDVRSY TITGLQPGTDYKIYLYTLNDNA RSSPVVIDASTAIDAPSNLRFLA TTPNSLLVSWQPPRARITGYIHK YEKPGSPPREVVPRPRPGVTEA TITGLEPGTEYTIYVIALKNNQK SEPLIGRKKTVQKTPFVTHPGY DTGNGIQLPGTSGQQPSVGQQ MIFEEHGFRRTTPPTTATPIRHR PRPYPPNVGQEALS

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22269	52637	A	22397	3	2382	QTEMTIEGLQPTVEYVVSVYAQ NPSGESQPLVQTAVTNIDRPKG LAFTDQDVDSIKIAWESPOGQV SRYRVTYSSPEDGIHELFPAPDG EEDTAELQGLRPGSEYTVSVVA LHDDMESQPLIGTQSTAIPAPTD LKFTQVTPTSLSAQWTPPNVQL TGYRVRVTPKEKTGPMKEINLA PDSSSVVVSGLMVATKYEVS YALKDTLTSRPAQGVVTTLEN VSPRRARVTDATETTITISWRT KTETITGFQVDAVPANGQTPIQ RTIKPDVRSYITITGLQPGTDYKI YLYTLNDNARSSPVVIDASTAI DAPSNLRLFLATTPNSLLVSWQP PRARITGYIHKYEKPGSPPREVV PRPRGVTEATITGLEPGTEYTI YVIALKNNQKSEPLIGRKKTDE LPQLVTLPHPNLHGPEILDVPST VQKTPFVTHPGYDTGNGIQLPG TSGQQPSVGQQMIFEEHGFRT TPPTTATPIRHRPRPYPPNVGEEI QIGHIPREDVDYHLYPHGPGLN PNASTGQEALSQTTISWAPFQD TSEYIISCHPVGTDDEPLQFRVP GTSVTSATLTGLTRGATYNIIVE ALKDQQRHKVREEVVTGNSV NEGLNQPTDDSCFDPYTVSHYA VGDEWERMSESGFKLLCQCLG FGSGHFRCDSSRWCHDNGVNY KIGEKWDRQGENGQMMMSCTCL GNGKGFEKCDPHEATCYDDGK
22270	52638	A	22398	48	7500	GATMACCAAQGEERTVPCASG KRGPAATTSLVLWIPVPPVPPF PTLWPPPSWRRQPPGGIRRD RRLRREANLVATCLPVRASLPH RLNMLKGGPGGLLLAVLCLG TAVPSTGASKSKRQAQGMVQP QSPVAVSQSKPGCYDNGKHYQ INQQWERTYLG NVLVCTCYGG SRGFNCESKPEAEETCFDKYTG NTYRVGDTYERPKDSMIWDCT CIGAGRGRISCTIANRCHEGGQS YKIGDTWRRPHETGGYM
22271	52639	A	22399	1	403	NSTNKRGRGFCFITFKE\EMEKKY HNVGLSKCEIKVAMSKEQYQQ QQQWGSRGGFAGRARGGGG PSQNWNNQGYSNYWNQGYGNY GYNSQGYGGYGGYDYTGYN YYGYGDYSNQSGYGVSRRG GHQNSYKPY

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22272	52640	C	22400	36	214	
22273	52641	A	22401	3	182	
22274	52642	A	22402	223	452	LESMTIFPYSDDKRAQYIFIQKD LLKKPVRHYYIMTLSHWAFNT RLALQYWGKGHKQTQIDSEA*Q LRNKTMTKANFF
22275	52643	A	22403	1	1037	MSEEQFGDGAATAA VG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGS ESEGAKIDASKNEEDEGHSNSS PRHSEAATAQREEWKMFIGGLS WDTTKKDLKD YFSKFGEVVD TLKLD PITGRSRGFGVLFKESE SVDKVM DQKEHKLNGKVIDPK RAKAMKTKEPVKKIFVGG LSP DTPEEKIREYFGGFGEVESIELP MDNKTNRGRGFCFITFKEEPPV KKIMEKKYHNVGLSKCELK\VA \MSKEQYQQ\Q\QQWDSRGGCA GRA\RGRGGDQAE\GYGKGIQA RWAIKNSYKPYLNYSICQPYPP TAGTSLQALCRADFRFSQARSM
22276	52644	A	22404	299	1508	HYVGGSSSGDGAARAT\AR AVGGSAGEQ\EGA\MVAATHG ARGGVWEADAATGGGTASGG T\EGGSAE\SEG\AKIYASKNEED EGHSNSSPRHSEAATAQRGRM\ KMVIGGLSWDT\TKKDLKD YFS KFGEVVDCTLKLD PITG\QSRGF GFVLFKESESVDKVM DQKEH K\LVNGKVNDPKRAKAMKTKE PVKKIFVGG LSPDTPEEKIREYF GGFGE\VESIELPMD\NKTN*RG RGFCF\ITFKEEPPVKKI\MEKK YHNVGLSKCEIKV VLLNEQYQ QQQQW*SIGGFAGIALVIGGGP SQNWNQGYSNYWNQGYGNYG YSS\QGYG\GYGGYDYTG YNN YYGYGDYSNQSGYGKVSRR GGHQ\NSYKPHTKFIPICNLF PN RWLQKYFPNLKIQFERGSCHLL
22277	52645	A	22405	3	189	EESEPERKRARTDEV L\PEEAAP RRKMRTTRTTCPVSRYAAP\QL LLQKLLQRRRKGSCSRG
22278	52646	B	22406	1	1356	
22279	52647	C	22407	135	260	
22280	52648	A	22408	1	1740	
22281	52649	B	22409	80	371	

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22282	52650	A	22410	257	1200	ISWCCMEQKKRLP\FSKREG\PY EFIICPSEDSSPLLRC AFCIGGMS VKEQMETIRHPLQTTRGPGPGP LFTDGPDP\PEAF\HGLLSIREM VSTEKVKPVGQESEPRVKPLEL DDASAGGVHMMVATPGRLMD LLQKKMVSLNICRYLALDEAD RMIDMGFEGDIRTIFSYFKHTSA AAIGLQLALDGGTGSQKQKGC EEFPSSMSAVSTGLEASACCLS VTMDPLETLSRMASSTSSMSSL ARAWLSPEPGDSPGMVGGGLPR ELPGMAPLECGEFQRPESLCAD RNELGSQSPEFPGQEEDEDED DEEDED
22283	52651	A	22411	107	2069	GGVSPWRACVQQRMESEPER KRARTDEVLP\EEAAPRRKMRT TRTTCPMCRYGSAGSLLLQKLL QR\RRKGAAEEEQQDSGSEPRG DEDDIPLGPQ\SNVSLLDQHQL \KEKAESA AKESCQGRKQLEGK KEKILGRIVCRAE\LDVK*KAD WLKGITVLIDPIKTQLGLPPR/Y MFLSMSEERHERVRKKYHILVE GDGIPPIKSFKEMKFPAAILRG LKKKGIHHPTPIQIQIPTILSCR DMIGIAFTGSGKTLVFTLPVIMF CLEQEKRLPFSKREGPYGLIICP SRELARQTHGILEYYCRLQED SSPLLRC\ALCIGGMSVK\EQ\ME TIRQGVHMMVATPG/RALMDL LQKKMVSLDICRYLALDEADR MIDMGFEGDIRTIFSYFKGQRQ TLLFSATMPKKIQNFA\KSALVK PVTINVGRAGAASLDV\IQEVEY VKEEAKMVYLLECLQKTPPPV LIFAEKKADVD\AIHEYLLLKGV EAVAIHGGKDQEERTKA\IEAFR EGKKDVLVAT\DVASKGLVFPA IQHVINYDMPEE\IENYVHRIGRT GR\SGNTGIATTFINKACDESFLI D\LKALLVRKPKQKVPPVL\QV L\HCGGWSPMLDIGRSSRGCAF CGG\LGH\RTDCPKL\EA\MQTK QVSNIGRKDYLAHSSMDF
22284	52652	A	22412	435	1428	

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22285	52653	A	22413	3	597	HKMAPYSPLVTRLQKALGVRQ YHVASVLCQRAKMAMSHFEPN EYIHVDLLEKNINIVCKRLNWP LTLEKIVYGHLD DPASQEIEQ GK/S/YLWLWPDHVAMLQFISKI GATTSVFPYNHRMRRYLSK/TG RTDIANLADEFQDHLVPDPGCH YDQLIEINLSELKPHINGPFTPD QAH PVAEVGKVAEKEGWPLDI RVGLT
22286	52654	A	22414	29	512	
22287	52655	A	22415	1	543	
22288	52656	B	22416	271	719	
22289	52657	A	22417	1	2438	SVHKMAPYSLLVTRL*KALGV RQYHVGSVLCQRAR\AMSHF EPNEYIHVDLLEKSINIVRKRLN RPLTLSEKIVYGHLD DPASQEIE RGKSYLRRLRPDRVAMQDA\TA QMAMLQFISSGLSKVAVPSTIH CDHLIEAQVGGE\DL\RAKDI NQEVYNFLATAGAKYGVGF KPGSGIIHQIILENYCVPWLSF*L GPDFHTPNGGG\LGGI\IGSCG WPNAWEWNLGIPWELKCPK VIGVKLTGSLSGWSPKDVILK VAGILTVKGGTGAIVEYQGPV DSISCTGMATICNMGAIEGATT SVFPYNHRMCKYLSKTGREDA NLADEFKDHLVPDPGCHYDQLI EINLSELKPHINGPFTPDLAHPV AEVGKVAEKEGWPLDIR\VGLI GSCTNFKLWKIWGRSAAVAKQ ALAHGLKCKSQF\TITPGFPRQI RATFE\RDGYAQILRDLGG\IVL ANACGPCIGQWDRKDIKKGEK NTIVTSYNRNFTGARNDANPET HAFVTSPEIVTALAIAAGTLKFN PETDYLTGHGWARSFRLGGSRI AD*VFPKGEF*PRGRDTYQHPP K\DSGAACWDLSPQSRLQLL EPFDKWDGKDLEDLQILIKVKG KCTTDHISAAGPWLFKRGHLD NISNNLLIGAINIENGKANSVG\ NPVTQEFGPAPD\LARYYKKHG I\RWVVGIDENYGE\SSREHAA
22290	52658	A	22418	14	260	RLCIGDAGVSPVCGP/CSAGGGP R*LNLEGGESSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGE/CS*ALGPHCGD

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22291	52659	A	22419	160	460	RLCIGDAGVSPVCGPLSAGGGP R*LNL*GGESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGNCGAFCALRSPHRHPGP KPARERLLLTGL
22292	52660	A	22420	43	418	SLGCAEQN/FPAIAIQPGMAQEE RLSRYQQFKDFQRRILVATNLF GRGMDIERVNIVFNYPEDS DTYLHRVARAGRFGTKGLAITF VSDENDAKILNDVQDRFEVNV AELPEEIDISTYIEQSR
22293	52661	A	22421	1	592	RFSKYMPSVKVSVFSRGLSIKK DEEVLKKNCPHVVRTRARILA LVRNRSFSLQNVKHFVLDECD KMLEQLDMRRDVQEIFRLTPHE KQCMMF/ERLSRYQQFKDFQRR ILVATNLFGRGMDIERVNIVFN YDMPEDSDTYLHRVARAGRFG TKGLAITFVSDENDAKILNDVQ DRFEVNV AELPEEIDISTYIEQS
22294	52662	A	22422	2	575	
22295	52663	B	22423	100	412	
22296	52664	A	22424	2	441	
22297	52665	A	22425	682	1032	
22298	52666	A	22426	1	1324	MAEQDVENDLLDYDEEEEPQA PQESTPAPPKKDIKGSYVSIHSS GFRDFLKPELLRAIVDCGFEHP SEVQHECIPQAILGMDVLCQAK SGMGKTAVFVLATLQQIEPVN GQSGQVHIFGLHIGARALVISEH ILKDEGAVEGCGVVQCLMARV TVLVMCHTRELAFQISKEYERF SKYMPSVKVSVFFGGLSIKKDE EVLKKNCPHVVGTPGRILALV RNRSFSLKNVKHFVLDECDKM LEQLDMRRDVQEIFRLDTTPR KQCMMFSA TL\SKDI\RPV\CRK FMQDPMEVFVDDTKLTLHG\ LQQYYVKLKTSEKNRSLFDLL\ DV\LEFNQV\IIFVKS VQRCMAL AQLL\VEQNFP A\AIHRGMAQE ERLSRYQQFKDFQRRILVATNL FGRGMDIERVNIVFNYPEDS DTYLHRVARAGRFGTKGLAITF

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22299	52667	A	22427	9	1535	EAQQLVSRPAENRSWKCLLA ARGEERGASIMAEQDVENDLL DYDEEEEPQAPQESTPAPP\KKD IKGSY\VSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSEVQHE\CI PQGHPGAWDVLLPGQSPGMGK TAVFRCWPPLQQI\EPVNGQV\I VLVM\CHTRELAFQISKEYERFS KYMPSVKVSVFFGGLSIKKD\I EVMKKNCPHVVVGTPGRILAL VRNRSFSLKNVKHFVLDEC DK MLEQLDMRRDVQEIFRLTPHEK QCMMF SATLSKDIRPVC RKFM QDPMEVFVDDET KLT LHGLQQ YYVKLKDSE\KTRKVFDLWD\I LEFNQVDILRQGQCKRCMAL\A QLL\VEQNFP AQWPI\HRGN GPQ KERPVNAYQASSKDFPSGRDPL VATQILFG\RGMDIEAKSNI\VFN Y\DM P*GLGTPYL\HRV\ARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAEI\PEEIDIST YIEQSRLNHQLARAGPPGAAPH AASPPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEIISKEQGNVKAAGA SDVVLYKIDVPANRYDLLCLEG LVRGLQVFKERNFFLTVLEVEK SKTKVEQIQCLCSQEDIADKLG VDISATKAVHISNPKTAEFQVA RTTLLPGLLKTI AANRKMPLPL KLFEISDIVIKDSNTDVGAKNYR HLCVYYNKNP GF EIIHGLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDVITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRITYT DEEFDEALCFEFGLELDEITSEKE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGLVRGLQV FKERIKAPVYKRVMPDGKIQKL IITEETAKIRPFAGAAVLRNIKFT KD\RYDSFIELQEKLHQNICRKR ALVAIGTHDLDTLSGPFTYTAK RPSDIKFKPLNKTKEYTACELM NIYKTDNHLKHLYLHIIENKPLYP VIYDSNG\VVLSMPPIINGDHSRI TVNTRNIFIECTGTDFTKAKIVL DIIVTMFSEYCENQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIETPENLAKLLT RMYLKSEVIGDGNQIEIIPTR ADIIHACDIV\EDAAIAYG\YNNI \QMHSPENFTP*ANQFPLNK\LT ELLRHDMA\AAGFH*STLPLAL CSQGRYWLDKLGVGYLWQQR AVHISN\PKTAEFQVARTTLLPG PP*RP*AANRKV\PLPL\KLFEIS\ DIVIK\DSNT\DVGAKKTTRQSL VAGLLPTKNPG\FEINSWGCWD RIMAVCSDV\PPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SL\GKLG\VLHPDVIHQIWS*PLP CSSLE\NIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCSVTLQLSLY MKSVA/GIGQTGKIEPVVLP WFAESGAMEGETLHTFYTQLV LMPKVMHYAQYVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAFPPA*TDIILWTEPATLM AEVSACCAPELPPPHRV PQIIG AQAEVNEPGGPAFRALLDPGA
22307	52675	A	22435	3	483	VRGSGNSHGEVSKGRMCLAGA LPLPGACAALVLLLVILPEPLRC PLHTLYGGRDPVDSIRLWRQA GEFRHKSNTFNNDTVSFLEY RTFQFQPSKSHGESDYIVMPN ILVLNKPSTWISVCFVHGCIPA SRTGPRTESMHSKSLWKAWLA APGLPLL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22308	52676	A	22436	1	1623	RRRPRLPGAEPCEPRVGPRRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVPSLIKQV LKNVRIDPSSLSFNMWKEIPIF YLSVYFFDVMNPSEILKGEKPQ VRERGPYVYK/ESSRHKSNITFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPNILVLGVAVMME NKPMTLKLIMTL\AFTTLG\ERA FHGTALWGEV\MWGYKDPLVN LINKYFPGMFPPKGGFGVFAEL NNSDSGLFTVFTGVQNISRHLV DKWNGLSKVDFWHSQCNMI NGTSGQMWPFFMTPESSLEFYS PEACRSMKLMYKIESGVFEGIP TYRFVAPKTLFANGSIYPPNEGF CPCLESGIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNCSVK LQLSLYMKSVAGIGQTGKIEPV VLPLLWFAESGAMEGETLHTF\ YTQLVL\MPKVMHYAQYVPS WALG\CVLLLVPV/LSCQIRSQE KCYLFWSSSKKGSKDKEAIQA GSE*SLMTSAPKGS\VLQEAKL
22309	52677	A	22437	198	1062	STCVEMPRNLLYSLLSSHLSPHF STSVTSAKVAVNGVQLHYQH GEGDHAV\LLLPGLGSGETDF GPQLKNLNKKLFTVVAWDP\R GYGHSRPPDRDFPADFFERDAK DAVDLMKALKFKKVSLLGWS DGGITALIAAAKYPYIHKM\VI WG\ANAYVT\DERPAG*YEGHP RMVSQMGVEGKKESL*EALYG YDYFARTCEKWVDGIR\QFKHL PDGNICRHLLP\RVQ\CPPPLIVH G\EKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADFE NKLA\EDFLQ
22310	52678	A	22438	223	393	AQASPPLLPP**ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPIDGLLCREPR RGLYLEGTPMTLFIQFLNSV GDLLDLIPSLSPKNGSLKVFKR WDMGHCSALIKVLPGFENILFA HSSWYTYAAMLRIYKHWDFNII DKDTSSSRLSFSSYPGFLESLDD FYILSSGLILLQTTNSVFNKTLL KQVIPETLLSWQVRVANMMA DSGKRWADIFSKYNSGTYNQ YMLVGPEESKAEPQSLTKGT/P VTLWEQIPTY/VRNISGTNLMFL RGKGFWA\SYNVPFHEKIYNWS GLSHC*FRKLGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYN\NYKE\DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKNNDFYVTGESY AGKYVPAIAHLIHSNPNVREVKI NLNGIAIGDGYSDPESIIGGYAE FLYQIGLLDEKQKK\YFQKQCH ECIEHIRKQNWFEAFEILDKLL\ DGDLTSDPFLTSQNVTCGSNY YNFLRCTEPEDQLYYVKFLSLP EVRPAHPTLGN\QTFN\DGPIV* KVPCGEDTSTSPVKPWALTE\MM NNYRVLIY\NG\QLGHPSVAAAP DQSAPLMG\MDWKGSP\EYKK AEKK\VKIFKS\DSEVA\GY\NR QVGDF\HQVIIRGGGHILPYDQP LRAFDM\NRFIYGKGWDPPYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTAVRIRHELKTMLTEL LRGGSFEFKDMRVPSALVTLH MLLCSIPLSGRLDSDEQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSGLILLSELLPLPLPMQTTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSSPFLPKRHKITG*GGD KTETSWSLRKYGGKNFK

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22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTSEDKEKQYTSQTT RLLALLDALASHKACKLAILHL INGTIKGDERYAEIFQDLLALVR SPGDSVIRQQCVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDCLLATLANS ESSYNCLLTCVRTMMFLAEHD YGLFHLKSSLRKNSSALHKLLK RVVSTFSKDTGELASSFLEFMR QILNSDTIG\CCG\DDNG\LMGSR RGAHTSRTMSINAAELNQLLQS TEESPEDLFLELEKLDLEHSD DDNLYSLD**RGLKQMLESSG DPLPLSDQDVEPVLSAPESLQN LFNNRTAYVLADVMDQLKS MWFTPFQAE\EIGTDLDLVKVD LIELSEKCCSDFDLHSELERSFL SEPSSPGRKTTKGFKLGKHKH ETFITSSGKSEYIEPAKKEFMLC PPPRGRGRGGFGQGIRPHDIFR\ QRKQNTSRPP\SMHVDDF\VA EASKEVVPQDGI\PSHPNRPLKVS QRISRVGFSGNRGGRGAFHSQ NRFFTPPASKGNYSRREGTRGS SWSAQNTPRGNYNESRGGQSN FNRGPLPQLRPLKFPTG*PAPK SLGTRAS*MVRGG\LGTFPGLS AKLAASGGSRGKFVSGG\SGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYSRLGR GKR FATFVLLVGGELCLTSYAP PSIHPILRSEAELNYSIFSFLA PAGEFALPRSFDCNCPVRLRAL RLALLILLTFILCWTPYYLLGM WYWFSPHMLTEVPPSLSHILFL LGLLNAPLDPSPSYGAFTLGCR RGHQELSIDSSKEGSGRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGGRRALPRLPAAS ARARGLTRALSRAMACRQEPQ PQGPPPAAGAVASYDYLVIGGG SGGLASARRAAELGARA AVVE SHKLGGTCTVNVGCVPKKVMW NTAVHSEFMHDHADYGFPSC GKFNWRVIKEKRDAYVSRLNA IYQNNLTKSHIEIRGHAFITSD PKPTIEVSGKKYTAPHILIATGG/ MVPSTPH*EPRSRGASL*ITSDG FFQLEEIVPAAASLVGARLPLSV EMAGILSALGSKTSLMIRHD\K VLRSFDSMISTNCTEELNAGV EVLKFSQVKEVKKAL\SGLEAS MVTAVPGRLPVMPMIPD VDC LWAIGGVPNTKDLNLKLG IQT DDKGHIIVDEFQNTNVKGIYAV GDVCGKALLTPVAIAAGRKLA HRLFYKEDSKLDYNNIPTVVF SHPPIGTVGLTEDEAIHKYGIEN VKTYSTSFTPMYHAVTKRKT CVMKMVCANKEEKVVG IHM QGLGCDEMLQGF AVAVKMGAT KADFDNTVAIHPTSSEELVTLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGPFEEAFDREDERQIE CQGRGVDRKITGEHTTFSGRSG PDHELTLDSGKGCTRSMVPASA ASEDRRKLPIIVEDEGGPTRSRA CSSPARGSRPPPSAIGCSPVAQA SDSAAGPARRTALQSLSSWLGY QIDRHSVPVYVFKSPLFSVIMAP KHKSSDAGNDRPKRSRKVLPL SEKVKVLDLIRKDKKSYAEVA KIYGKNESSIREIVKKEKEIRASF AVSPPTAKVTATVRDKCLVKM EQALHLWVEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPEYTWFK DGIRLLENPRLGSQSTNSSYTM NTKTGTLQFNTVSKLDTGEYSC EARNSVGYPQVPGKRMQVDD LNISGIIA AVCGLGVCYAQRKG YFSKETS FQKSNSSSKATTMSE NDFKHTKSFII
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

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22332	52700	A	22460	2	1169	HTPKTEQTPIPGLEDPPPLGSQLR RRPGEGETDIPSRAVPPLPPLPT LCSFPAPEVQGPASCAPAAAGT LDLLRAAGCRPGKMARRSRHR LLLLLLRYLVVALGYHKAYGF SAPKDQQVVTAVEYQEAILAC KTPKKTVSSRLEWKKLGRSVSF VYYQQTLQGDFFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPGVEDTVTLEVLGDVHVL APAVPSCEVPSSALSGTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYTMNTKTGT LQFNTVSKLDTGEYSCEA\RNS VG*SEGPCETNASR*SQHKVGII GSR*S*LWALVDFFVGLVYSYG SEGKATFSKETSFQKSNSSSKAT TMSENDFKHTKSFI
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFPPSGLITGKKRKALLGACD CTQIVKPSGVHLKLVLRFSDFG KAMFKPMRQQRDEETPVDFFY FIDFQRHNAEIAAFHLDRILDFR RVPPTVGRIVNVTKEILEVTKN EILQSVFFVSPASNVCFFAKCPY MCKTEYAVCGKPHLLEGSLSA FLPSLNLA PRLSVNPWIRSYTL AGKEEWEVNPLYCDTVKQIYP YNNRQLLNVIDMAIFDFLIGN MDRHHYEMFTKFGDDGFLIHL DNA\RGFGRHSH\DEIPILSLLSQ CGMIKNTLLHLQLLAQADYR LS\DV MRSLLEDQL\SPVLTEP HLLAL\DRRLQTILRTV\EGCIV AHG\QQSVH*FDGPSGNSSGPR
22336	52704	A	22464	2	424	GRVGVS AVIVRAWITHKYSGR DWNV KWEENLLHAVAKNYTL LQTIPPFERPFKDHQVCLEWNM GYIWNLRANRIPQCLEN/DFRE DFHYNDTAGYFIIGGSRYVAGI EGFFGPLKYYRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALDGDSQGFFNL ALLIEEGTYERCWSHSNEESFS PCSLAWLYLHLRLLWGAILHSA LIYFLGTFLLSILIAWTVQYFQS VSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKGWEGMRKHLHT RQGHK*VHVVKFPASIMGLQGM DYFHPDISIFCNLAVIVRAWITH KYRGRDWNVKEENLLHAVA K\NYTLLQTIPFERPFKDHQVC LEWNMGYIWNLRANRIPQCPL ENDVVALLGFPYASSGENTGIV KKFPRFRNRELEATRRQRM DYP VFTVSLWLYLLHYCKANLCGIL YFVDSNEMYGTPSVFLTEEGYL HIQMHLVKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRFRPRMAVMAPIRT LVLLLSGALALTQTWAGSHSM RYFSTSVSRPGRGEPRFIAVG YV DDTQFVRFDSDAASQRM EPRA PWIEQEGPEYWDEETGKVKAH SQTDRNLRIALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTL L L L L LSGALALTQT WAGSHSMRYFSTSVSRPGSGEP RFSAVGYVDDTQFVRFDSDAA SQRM EPRAPWMEQE EPEYWRD QTEISK TNAQIDLESRIALRY Y NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFP AEITLTWQRD GEDQTQDTEL VETRPAGDGT F QKWASVVVPSGQE QRYTCHVQ HEGLPKPLTLR WEPSSQPTIPIV GILAGLVLF GAVIAGAVVA AV MWRKSSDRKGGSY SQAASSD SAQGS D VSLTACKV

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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTL\LLLLS GALALTQTWAGSHSMRD\FFTS VSRPG\R*EPRFIAVGYVDDTQF VRF\SDAASQRM EPAPWIEQ EGPEYWDQETRNMK A\HSQTD RENLRIALPLTYNQSEAGS\HTL QMMFGCERGGSDGALSFRGLP PVTAY\DGKGFTFALNE\DLRS WT\AADMAAQITQRKWETPPM WRS/EQEEAYLEG\QCV\DG LRR YL\ENGKEDAAAQRTPPKTHMT HHPIS*P*RPL*RCW\A\AFYPC GDHT*PWQRDG\EDQTQ\DTL V\ETRPAGDGT F\HKWAAVVVP SGEESEITPANVQQ*RVL PKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWVAAVML KEGTAQVGKG*KIEKGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMD DDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLK\ILMPFVK TCL MVLPSVQTIWKS\VDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\ DVI AEPVTT\HSFDKV\W\CSHALFEI \SKYRM\YRSLT\VFLGHSPWAFI CGEFSFATL\SCLAHLGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V\ISLAPLC\TSVG\RCFLFLFLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGSISRDSG RTQEGIPARVPYPPPP/PTREPPQ ST*PGRNLLGCLGGGAPRPG WLDSEAGGAPAFHCPG*CPRRH RRGGTRLKQLPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDEVTVKHLGCQRCQWSRC PPSCSGTCLCCGAEAPCAAQPA WPPPPAAPPPTPPAPPSD\NSSCT Q*PTPRCGT*DKDKGIFTL PKGH P*V*SLEHGFLKLGSCP\PPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCGVAVGYPLDTVK VRIQTEPKYTGIVHCVRDITYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHCRLRYGNPD AKPTKADITLLGCGLRTRPRVP DVAH*GGQSPLADADTGFLSSS GGFRLSALLAAPPMPVPPACP EPKYRGPLHCLATVAQ\EEGLC GLYKGSALVLRDGHFSFATYFL SYAVLCEWLSFAGHFRPDVPG VLVAGGCAGVLAWAVATPM\D GIKSRLEANGQQQ\NGYRGLLH CMVTSVREEGPRVLFKGLVLN CCRAFPVNMVVFVAYEAVLRL RPGSAHHSRSPTRGATHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FQRVR*DYLHGYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNIEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLGLLLVSRAESHDAIEW RGDSSVNVIEDGSSNAKDESKS NDTVCKEDCEESCDVKTKITRE EKHFMCIFHNVQSLGTVCGEK GIDVN*NYTRRKTFHVYLPQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMCDMDYRGG GWTVIQKRIDGIIDFQRLWCDY LDGFGDLLGDAFL\FL*KEDNQ NAMPFSTSDVDNDGCRPACLV NGQSVKSCSHLHNKTGWFFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCPAPFLFWMLGVKT EPAGQDRRKKARSRCIFRVHA SGLWGLRFPSVEWGKPSRDKA QLSESPQSVYLFAETALSAIVP GDGVAGGGGTGDGGPGAPYPG AVADMEELTIWEQHTATLSKD PRRGFGIAISGGRDRPGGSMVV SDVVPGGPAEGRLOTGDHIVM VNGVSMENATSAFAIQILKTCT KMANITVKRPRRIHLPATKASP SSPGRQDSDEDDGPQRVEEVD QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPRSEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQ\RLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQ\HSPA*KRLLQGGS KGGAAPCHKPEAGEDATLRD\ MI\NPEMWGS\MVGVYH\GKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFALGLPQPEMI GHYLGFEFSITYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPKLTCAFPVSV PDSCCRVCRGDGELSWEHSDG DFFRQPATREASHCHRSHYDP PPSRQAGGLSRFPGARSHRGAL MDSQQASGTIVRFVLNNKHKH GQVCVSNGRTYSHGESWHPNL RAFGIVECVLCTPTPID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMILHQADRLEVCPA FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDKCVFPMEGPIL MASPGTQTSGLLALWSVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIFRQPANR EARHSYHRSHYDPPPSRQAGGL SRFPGARSHRGALMDSQQASG TIVQIVINNKHKHGQVCVSNGK TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHCNRYPCCK YPQKIDGKC*QNSTCFLIPEELP GQSFDNKGYFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA\QGILQHFIHIEKISKR MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVCRTELED LVKVLYLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTSMGEHLQKLIPASPACLA* IPQACQP*PPTPPAWQCRNLRL AASRHQEPGEVGGPLGHGAE RILAVPVRTDAQGRLVSHVSA ATSRAGVRARRAAPVRTSPFPG GNEEPPGSHLFYNVTVFGRDLH LRLRPNARLVAPGATMEWQGE KGTTTRVEPLLGSCLYVGDVAG LAEASSVALSNCDGLAGLIRME EEFFIEPLEKGLAAQEAQGR VHVYRRPPTSPPLGGPQALDT GASLDSLDSLRAL

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22365	52733	A	22493	173	1148	QALGLPSLLAVLALSTTDRAF SAVISRSPQRTVSSTRKEQRPLV FAFSALRLGTNACKMDGFCSTF LGAPGIRLKLTPAGTHKSERD RTATPTRHHEKRLFCSSLSIGRQ AEEAWRADHPLPESRLFGLVPL GGAAWCRLAGSFCVCSLRLPRP IELVRAASGALLGAVRRRNHGP PHCFSTATLLCKAYRGGHLTIR LALG\GAPNRPFYRIVAAQNKC PRDGFP*SKLGPPYDP/LLPPNS HGEKTPCPLN\LDRI\RHWIG\CG APLLSPMEKLLGLAGFFPLHP\ MMITNAERLRRKRAREVLLAS QKTDAAETDTEATET
22366	52734	A	22494	2	4985	AGATTALELPGQPSVTGVPPEL GLPSATRALELSGQPVATGALE LPGPLMAAGALEFSGQSGAAG ALELLGQPLATGVLELPGQPGA PELPGQPVATVALEISVQSVVT TSELSTMTVSQSLEVPSTTALES YN/DERSMMSSYERSMMSYER SMMSPMAERSMMSAYERSMM SAYERSMMSPMAERSMMSAYE RSMMSAYERSMMSPMADRSM MSMGADRSMSSYSAADRSM MSSYSAADRSMSSYTADRSM
22367	52735	A	22495	18	174	ALIKKHFI*IAAAKPTPPKSQV TLTKEFPVSSGSQHRKKEADSV YGEWVL
22368	52736	A	22496	3	595	IKKHFI*IAAAKPTPPKSQVTLT KEFPVS\SGPQHRKKEADSVYG EWVPVEKNGEENKDDDNVFS NLPSEVSRRNIMYFSFFIPESAH FIVMLCLIWDSVSLFLRAGVKR QGRV*DGQMKQPAASHLTVT RM/CNSLCG\TKATKWRLRFA ENSVITSLPNIGPSLHLWEGSP WYSIPFSFPSLLLLKVGEVEFKR

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPPEPPVMAQEL PGLPLVTA AVELPEQPAVTVA MELTEQPVTTTELEQPVGMTTV EHPGHPEVTTATGLLGQPEATM VLELPGQP VATTALELPGQPSV TGVPELPGPLSATRAELSGQP VATGALELPGPLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQP VATALE ISVQSVVTTSELSTMTVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQMLASNTMDSQMLASNT MDSQMLASSTMDSQMLATSSM DSQMLASNTMDSQMLASNTM DSQMLASSTMDSQMLATSSMD SQMLATSSMDSQMLATSTMD QMLATSSMDSQMLATSSMDSQ MLATSSMDSQMLATSSMDSQ LATSTMDSQMLATSTMDSQML ATSSMDSQMLASGTMDSQMLA SGTMDAQMLASGTMDAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKVDA YLYKQILLMKLP TKKSKKHKHKHKNKKKKKKKE KEKKYKRQPEESES KTKSHDD GNIDLESDFSFLKFDSEPSA VALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPATKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDSFAAAPVPTTTLVLK SSEPVTMSVEYQMKSVLKS ESTSPEPSKIMLVEPPVAKVLEP SETLVVSSETPTEVYPEPSTTT MDFPESSAIEALR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRTSKMQTSS SRSVHLSWQKNYFAITSGICT GPKADAYRAQILRJQYAWANS EISQVCATKLFKKYAEKYSAID SDNVESGLNNYAENILTAGSQ QTDSKWKQSGLSINNVFKMSS VQKMMQAGKKFKDSLLEPALA SVVIHKEATVFDLPKFSVCGSS QESDSLPSAHDRDRTQDFPES NRLKLLQNAQPPMVTNTARTC PTFSAPVGESATAKFHVTPFLG NVKKENHSSAKENIGLVFLSN QSCFPAACENPQRKSFYGS GTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQKK YHQPQRASGSSYGGVKKSLGA SRSRGILGKFVPPPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIFTGLRGPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGECEKMOVRAF AVARCQQPAVIFIDEIDSLLSQR GDGEHESSRRIKTEFLVQLDGA TTSSDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLSEEEIEQIVQQ SDAFSGADMTQLCREASLGPI AV/SQTADIATITPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFPAFKMSKRG\RGWVPSG CRKFDPFPLGLP\VGTL*SNWCL TNT\GAQKTLY\NSREGGIKGTG LTRLPRLPVG\DMVMAHSSRK ANPELQKKGYIPA\VIRQRKVI TVGKRWRCFFIFED\NAGVIGD\ NKG\EMKGFAITG\PRAKECAD LWPRDCIQMLGSIAWFSQYIL

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22374	52742	A	22502	3	946	GPSASVSFWLWSQQHSPRIRHP RPGERRLLHGIPHPTAEKQPA PLRPERRGGRRRRPAGRRGCA* /GGARPCSSRSS*PASTPAPRAA PPCRSPCSARPTGPRTGAGRPR AP/HDGPPCATPDPRDQAS\PLPP RGPRPRVAPGSP\PEGHPRELPS EGSPGPRAPGQRHVPRPRAVLR PRGLRGGGCPGPAHPAPRLQRR RAPGEAAAPGPRWPGRPGRGR AQALVPAARSRCFWKLWEAVF CLPVAAAPTRRFGARQRPQLW LHGHKGGQVGEVSSHSAAGEEH LVPHAAPKRAREPHGRSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTLSYAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*TFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRTVVRVSNIKPLC TKMAFLCAACGEIQSFPLPDGK YSLPTKVIRSLTASLFILVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSIIILLHDLVDSCVPG DTVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPHILV VGDPGLGKSQMLQVDNQSFVS CSFACKMR**FTSEFSPLSKDSS SGDFALEAGALVLGDQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNKAKTVSENLK*VSSNIY TFNVLNHFNSIRKRNSSHLLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVSEKPLSERLKV *MFLLLIQFGSV*MSKFSVWLIV DVYPRLSTEAARVLQDFYLELR KQSQRNLNSSPITTRQLESLIRLTE VCFFLWSCFFWLKGECCALTS LKYSR*DKNFKLF*MKYQLSSHL KLGNRPNRSTAKRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND\QGYLLKKG PKVY\QLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

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22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPGDLGR PKPECEGYDPNALYCICRQPHN NRFMICCDRCEEWFHGDCVGIS EARGRLLERNGEDYICPNCTIL QVQDETHSETADQQEAKWRPG DADGTDCTSIGTIEQKSSDQGI KGRIEKAANPSGKKKLKIFQPG PGPVPTQLPVLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPG\CCHVAQP\DSVYC\SNDCIL KHAA\ATMKFLSSGKEQKPKPK EKM KMKPEKPSLPKCGAQAGI KISSVHKRPAPEKKETT VKKAV VVPARSEALGKEAACESSTP\S WAS\DHNYNA\VKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGKERAGGRASGRGRSE PPRPGARASDAGPGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECGPGLGGCVAG LISGKSVQAFSVGAGRWP LLRV FGGNVTFCSSVWSLCA YTLPL GMDDKGDPSNEEAPKA IKPTSK EFRKTWGFRTTIAKREGAGD AEADPLEPPPQQQLGLSLRRS GRQPKRTERVEQFLT IARRRGR RSMPVSLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGGDDHDDTS DSDSDGLTLKELQNRRLRRKREQ EPTERPLKGIQSRLRKKRREEGP AETVGSEASDTVEGVLP SKQEP ENDQGVVSQAGKDDRESKLEG KAAQDIKDEEPGD\LGRPKPEC EGYDPNALYCICRQPHNNRFMI CCDRCEEWFHGDCVGI SEARG RLLERNGEDYICPNCTILQVQD ETHSETADQQEA*MGDLGDA\D GTDF\TSIGNIRSRSLRRPKGLK GRIEKAANPSGKKELKIF\QPV L EIAVSRSSISAF TLLHCISCKVIEA PGASKCIGPGCCHVAQPDSVYC SNDCILKHAAATMKFLSSGKEQ KPKPK EKMKMKPEKPSLPKCG AQPVQWLLLLSSWQLGTSSGL QVTLCQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMPLRPLPCLPGWPRSSPSL

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22381	52749	A	22509	149	2001	IQPPDPRNMTLAA YKEKMKELP LVSLFCSCFLADPLNKSSYKYE\ AGVGD SVGGRMKASGKTVLT GRERRAQADTV\DLNWCVISD MEVIELNKCTSGQSFEVILKPPS FDGVPEFNASLPRRRDPSLEEIQ KKLEAAEERRKRGPD LVIYIEH SPASLPFHSSDASVLGDIPPTY SNISNSNQELLLMGGSPAPEQP HYEANILERSETTSYDNGSDAA QSFKVDGRCVFYINIPISNEGK VLWKAPEIATAKEPTWSPLGST GPRPCQILVVKSPVVHGKGPVL SGCGLDLLEQPTFALCFLVAGA VTITFLSCSGEEAREESAPKAMS ERQARRGGA EKQGA EGRGLQA VTTPELPYRMGLGA AFLKERS GVLPGSFICEDFTAALKQDEEIG TMKGKIREAYFKSFVPTPVAFS GGVMLPTGGTLEMCGNNFGGH KEQAGTVLP AFAIALRVTPSAS LVLRLPLNDQAMLQGS LGLQL ADGLFWDLASIMDWTSRIQPS VSSSMKICQAFPGRPLAILLAQC AYVYGTWMKLEA IILT KLTOE QKTKHHLFSLPCCMPADISYRQ RCLGEPHCTVWNRHLESLVM MSNSTTSPCELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAA YKEKMKELP LVSLFCSCFLADPLNKSSYKYE ADTVDLNWCVIFRHWK VIELN KCT/SGANSFEVILKPPSFDGVP EFNASLPRRARPIPWEEIPVRKL GRRLRERREVTREADP* KQLAE KR\ EHEERGDSKRAFRETTTFIK MAK/EKNLAQKMESNRENREA HLAAMLERLQEK\DKHAEVR KNKELKEEASR
22383	52751	A	22511	524	1107	LCS PKVLGLNASCQKNFLKQK KSIKTLSTSQ/YSVSGYSLARSE NAHPEFRMAMKD GELVIWDSV HPCYTVFHEQTET FSSLWSEYH DDFRQFLHIYSQDVACYGENLA YFPKGFIENMFFVSANPWVSFT SFDLNVANMDNFFAPVFTMGK YYTQGDKVL MPLAIQVHHAVC DGFHVGRMLNELQQYCDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTVCYFLQAAEEDETQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGRE\V NDLKRK\SPSDLW\KEDLAGIC WRDWDKV\ENSPRNEEDVLAG MSGKSNLKGVGKPKVKKLQ LEETMPSPYGRRIPEITAMKAD ASKLLKKK/KGVLDLDTAAVK\ VEFDEEFGAP\VEGAGEEGIDS HQFPINK\GPKP\RREKKEPGSR VRKTPTSSGKPSAKKVKKRNP WSDDESKSESDLEETEPVVIPR DSLLRRAADIHRLGGEGFDAGL TVFAPLFASPFPPRGAPYLKAA CQTPRSGIGATAISGEALKGAV SSGVDPRWASHLRVKLLEKSFS LQEIQSTEKVLSQQAKTSLLG EPKLSKQLTGTCIYRKTNLALC RGPAAAKSLFQGA VRNDRNKK KKETSKQECTESYEMTAELDDL TEKIRKAHQETFPSLCQLGKYT TSLQKGMQRCQILDLSVRPIV DVRPPELQDSKLVLVQAAKCA PLADHCSKPVLLKEGPEDQKD QHDVGDCWNPECQTLFDQNN AAKKEESETANKNDSSKKLSVE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPAAVGGWKGWF GTESRKDPKPTGTEEVERGVW LSGREGRLLSPSVTTMVLAE SAIRFVGGKPSSDTVPKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFLRGKILNVREASH KQIMENAEINNIKIVGLQYKKS YDDAESLKTLYGKIMIMTDQ DQDGSNIKGLLINFHWNWPSLL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKKHIENQKAWKI KYYKGLG\TSTAKEAKEYFA\D MERHRLFRYAGPEDDAAITLA FSKKKIDDRKEWLTNFMEDRR QRRHLHGLPEQFLYGATKHLTY NDFINKELILFSNSDNERSIPSLV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKR PVEGPATLRRPLGI AAASQCPSSPQPGCLIGAVNLK SSNRTPVVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTYVFF DNKIQGDLAGRAEILGKTSLK1 WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTTVQVKPVTVPVCR VPKAVPVGKMATLHCQGE*GP PPA\HYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDLSFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPFCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPP GTSPGAGAQR R*\PRADGSGSPQWPRGARVGG GRLGTGGRGRPGWRQVPRRLS PGFGR*GGTGP GPVGTSGKRG SRRRAPANDKAACWPRFPGQP AS*TGFRGERGVKGFSSWGS WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSQSAEVLGELVLDGTA PSAHH DIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAPPSSSQSAEVLGE LVLDGTAPSAHHDIPALSPLLPE EARPKHALPPKKKLPSLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDPD PIVASEEASEVPLWDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPPDMAQEAPQEDTS PMALMDKGENELTGSASEESQ ETTTSTIIITTTVITTEQAPGMQPP TPMGEPPPIVKHTWILDKCNVA TLQST*ALGPNEG YIDSSDYPLL PLNNFLECTYNVTVYTG YGVE LQVTPGEYPD GELLSIRGVDGP TLTVLANQTLLVEGQVIRSPTN TISVYFRTFQDDGLGTFQLHYQ GRVRPRLFRRPDSGDVTVM DL HSGGVAHFHCHLGYELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSY PENT NGSQFCIW TIEAPEGQKLHLHF ERLLLHDKDR*SSEGPQTNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGEG PWELYEPYIQNGNFTTSDPTYNI GTIVEFTCDPGHSLEQGP AIIECI NVRDPYWNDTEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHVGE EKRIFLDIQ/FVS V*NGSVFSQEKVRPTPEWW
22398	52766	A	22526	131	3125	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSVDVLYFIFY RRDDNKDIDSEKEAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVRKQSLGEIFLCISNINMS C*KVKSKVSAFSTWEKELHKIV FDPYRLLLLNLI

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22401	52769	A	22529	2	614	KDHRWESGSLLEREEKEKLFNE HIEALTKKKREHFRQLLDETSAL TLTSTWKEVKKIKEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRTLKTKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSSST E\RSKKLIQESDQHLKDVEKILQ NDKRYLVLDVCVPEERRKLIVAY VDDLDRRGPPPPPTASEPTRRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPG \LRMAQQQALRFRGPAPPPNA AMRGPPPLMRPPPPFGMMRGPP PPPRPPFGRPPFDPMPPMPPPG GIPPPMGPPHLQRPPFMPPPMSS MPPPPGMMFPPGMPPVTAPGTP ALPPTTEEIWVENKTPDGKVYYY NARTRESAWTKPDGVKVIQQS ELTPMLAAQAQVQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQVQAQVQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRTSQQLQLIDE QDSYIQSRADTMQNIESTIVELG SIFQQLAHMVKEQEETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLAVAAATSSPLPPPV LVPPPPDTMSCRDRTQEFLSAC KFAARPVKNGIQTN*GQLLRW LVRQRSEIHPSLAKRHLGKDLS NTFAKLEKLTILAKR\KPLFDDK AGEIEELTYIHKQDINSLIKQIAQ LQDFVRAKG\SQSGRHLQTHS NTIV\VSLSKLA\SMSNDFKSV L\EVDRDRTLKQ\QREPEERQFS RAPV\SALPLSPTHRAGGA\VVL GAESHASKDVAIDMMDSRTS QQLQLIDEQDSYIQSRADTMQN IESTIVELGSIFQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVEAA HSEILKYFQSVTSNRWLMDKIF LILIVFFIIFVVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPL RHLMYKIKSTGPITVAEYMKEV LTNPAKGYVYVRDMLGEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTLVGD ILRVFTQLGSLVKNCDISVHLVE VSQKLSEIQALTLTKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTD\VPKGYSFYLAHEF\LDV LPVHKFQKTPQGWREVFVDIDP QVSDKLRFLVAPSATPAEAFIQ HDETRDHVEVCPDAGVHIEELS QRIALTGGAALVADYGHGDTK TDTRFGCDHKLHDVLIAPG\T ADLTADVDFSYLRRMAQGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQLLQGYDML MNPCKMGERFNFFALLPHQRL QGGRYQRNARQSKPFASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDDL ATSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHTGTPQP VAYLSKETDVAAK

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22414	52782	A	22542	1	1230	GPRGTGPKGKARSEKGCSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIIMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILGVO KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLSSQIPEEAWEFP VLDLKDFAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
22419	52787	A	22547	43	236	TSSLLRKEDSAPSQGKSVVFTL TSQG*VPLWRTLQLOQPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPPFMSSPPATEP WVCLIIEGQEIDFLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPEEAWEF FTVLDLKDFAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG

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22425	52793	A	22553	292	1493	SNDRTEDDCGKHPFMSSPP\TEP WVCLIEGQEIDFLDGTTFVS LIPCLGRLSSRSVTIQGILGQPV RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKDFAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETAFTLKQ ALVQAPALSLPTGQNFALYVIE RAGIALGVLTQTHRTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCH\PLTEPQVCLT IEGQEIDFLDGTAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPLQEIKPQYSLT ETEWGLSQGHSFLPLGWLMT EVKVLIPASQWKILKTLHQTF QMGIENTQQMAKSLFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDFT NWIEAFPCKIEKAQEVNKLVIH ETIPRFGLPQSLQSDNDPAFKA MITQGIFQGAKDTISPSLCLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTNQNCQKQAKKSPKDHK NPRAVGYPFNL*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGSWLISRESPRLACLGEGLG VPGM*DLPHAWPTTLMCPVL GSWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLLMFGCVWSFFLL VSSWSRWLRSEATDLCGECYSS

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22432	52800	A	22560	2746	5211	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPRVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPERPTG LLGRDILAKAGAIYMNMGNKL PICCPALLVEGINPEVWALEGQF GRAKNARPLQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEAESWAL TFKDAFFCIPLHSDSQFLFAFED PTDHTSQTGTVLPPQGRDSPH LFGQALAQDLGHFSNPGTLVLQ YVDDLLLATSSEASCEQATPDL LNFLTNGQYKVSRLKAQLCLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLKQLRGFLEITGFC *LWIPGYSKIARPLYTLIKETQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSLPTGQNFSLYVRE RARIALGVLTQTHGTTQP VAY LSKEIDVVAKGWPHCLRVVAA VAVLASEAIKIIQGKDLTV*TTY DVNGILGAKGSLWSDNCLLR YQALLLEGPVLQICTCMALNPA TFLPEDGEPIKHDCQQIIVQTYA ARDDLLEVPLTNPDNLNLYTDGS SFVENGI/RKVSDVTILESKPLPP GTSQAELVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHIHSSPCHERPNNVSTLPF LPGEQHPILLPPRNC PGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHNGNRPRQSRGFGELL STAKQDLVLEEQSPSSSNLENS LVKDYIHYN GDFNAKSVNGCV PSPSDAKSISSEDDL RNPDPSS NELIHYRPRTFNVGDLVWGQIK GLTSWPGLVREDDVHNSCQQ SPEEGKVEPEKLKLTLEGLEAY SRVRKRNRNGIKVPPRSPRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVVSRAIGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKELGLREENEGVYNGS WGGRGEVITTYCPANNEPIARV RQA\SVADYEETVKKAREAWKI WADIP\APKPKEKLVRQIG\DAL REEDSKLLRKPWCPLDVGKIL LEGVGEVQEYVDICDYAVGLS RMIGGPILPSERSGHALIEQWNP VGLVGIITAFNFPVAVYGWNN AIAMICGNVCLWKGAPTTSLIS VAVTKIIAKVLE\DNK\LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFG\ RHYQNWRSLELGGNNAIHAFE DADLSLVVPSALFACCGEQLGQ RCTT\SRGRIFYMESIHDEVFK QTLKRAYGTRSRVG\NPWDPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVMDRPG N\YVEPTNVTSLDHDASIAHTE TFAP\ILYVFK\FKNEEEVFAWE* WK*NRGLSS*HSLPKDLGAESF RWLGP\KGTQTCG\VKCQPFPT KWGLRLGGA\FGGEKAHLVVA RESGQ*C/WGKQYMRKVYLV FNYS\KDLPSPGQGIKFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

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22438	52806	A	22566	1	2450	GQACHASSSPLKGSRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQVIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLFDLALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDEILHALR DHIVGLNCGRWDIYFSYIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTKRGAFAMGGM AAFIPSKDEEHNQVLNKVKA DKSLEANNHGDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGSQNLWKFA VYSGLRHGELAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVYEIYGMWID DMSDEQIAMLNARVMVYDVA SGNALFISELGPLPENVTWLSPE GEFQKWNGTAWVKDTEAEKL FRIREAEETKNNLMQVASEHIA PLQDAADLEIATEEEISLLEAW KKYRSIPLCSKVVTMMFDDRP GCPVGFPWGRGGFDRMPPG WGGRPMPPSRDMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMRGLEGPNIYIFIKIS KNRRYTMAVTSVGLASSLCRV VRPCRAPAGVVSRSPPDEWL FCPQARIQQQDID/NGTLPDFIS ETASIRDA/DWKIRGIPADLEDR RV/EITGPVERKMVINALNAIF MADFEDSLAPDW/NKVIDGQIN LRDAVNG/TISYTNEAGKIYQL KPN/PAVLICRVRGLHLPEKH/V TWRGEAIPGSLFDLA/LYFFHNY QALLAKGSGP/YFYLPKTQSWQ EAAWWS/EVFSYAEDRFNLPRG T/IKATLLD*TLAGGFQMVDP LGG*TGPWDHLRYIKVENIPKV GEEGDAETTGGTAV
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKV FVVKRLSSSSRRSLVI SPPVRTSTVSSPLTSPTSPSTLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASSS EEEEPLLCNGPSQAQPSPIIESA RSQEEVPPSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFFK VLKNFLIAGGGVHESSKRAS*T LQFIYY\SEWYGHEELKAIVWN NDLLWEDYEEKLADQAVRTM EIYVAQFSEIKERIAKRGRKLVD YDSARHHLEAVQNATKKDEAK TAKAEFEFNKAQTVFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKVFVVKGLSSPSTL SLKSESESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEDEPLPACNGPAQAQPSPTT ERAKSQEEVLPSTTSPGGALS PSGQPSSSATEVVLRTRTASEGS EQPKKRASIQRTSAPPKPPEKPV RTPEAKENENIHNQNPEELCTSP TLMTSQVASEPGAEKKMEDKE KDNKLISANSSEKYIFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEAL*KLG KAVETKDERFEQSASNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAKISQEE VLPSTTPSPGGALSPGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPPRRPPPPRATASPRP CSGNIPSSPTASGGGSAITSPRAS LGTGTASPRTSLEI*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/C/TIWQ/TSLA/GKH RRTIETHDDYRISLEQGTPTGLE PPLNALTAISKKIGCNFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHHNVLP DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELYSPFSFPYACLLSS LMRLEKHQELNLWPAHQRSRMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLAAFMGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSGLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQGRRAGPPSWLYADPVHTGT IECGGHWCLNAALLDFQSPQRL LTYLHCGLQRPME SDPPELAPM VHHQEGIYLNIRKAMYDKPTA NKL NWDKSNVSSLITGTRQEET TANGTTFATIHLOFFIQIPAVPR KTLLNRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGRLTP HTAGYSSETKIPEERSDSSIRGS RKSAVLQPLLLDSQANRVWSG PLANSNRPA AEGPVC*LWWVT LHGPKLATMQVCQQLW
22453	52821	A	22581	294	934	YPPSPAELTVCLRLQLRDLV YCIA YPSGPGVKPFRGNSA/G/V VFPADNLSEAQMQLI/ARELGH SETAFLHSD/DSDVRI/RFTPTV EVPI/CGHATVAAHYVRKVL/ GLGNCTIWQTS LAGKHR/VTIE KHND D YRISLNALTAIS/KKIGC NGFFPFQIRPG/KNETDGRMFSP AIGIVE/DPVTGNANGPMGAWL VH/HNVLP HDGNVLRVRQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	AACAAAMSLVPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLLISSML*TAPNRRSDK AFTPHPTNHAGSQLRKHPTCSI DGVIDIFHAVNTFVQHHMEETL KAFHVTGHHILIARHGLGVGKE NTEHAANVVNDQRNSGFFCRF QQTFCQTC CQLIQR FVNARLRD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLREDLERLKKI RAHRGLRHFVG*VGGLISLPTS TQHSSYSLFFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTTGRRG RTVGVS KKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTL FQRQQADLV SVKSGFFTADCTHTNALIDVV RTIFNNAVF*NPGFVIARLKIEIA I IKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRLRGSYPVAGRSLRHRHQ TERF
22460	52828	A	22588	1	427	LVHQQWIQTKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQAFLAVVVVVVGPLVVRP YHTRRDAVRLLRQPAVFIVAV DIVRILRDAVIRPHCECTVRV\R SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVIPEKFQHIL R\VLNTNIDGRRKIAFAITAIG VGRRYAHVVLKADIDLTKRA GELTEDEVERVITIMQNPT\QYK IPDWFLNRQKDVKDGG\FQPGS *ANGLSTTKL\RENKPLKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRCYENRHRHCHLLQQ LPTSPHQHAVATPTTVAVPTAP AATPPVVAVVVAVVVVVVP VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRLKTVVAHVFGERTFDVVI WMTDGWPLYESRPAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSLRLKTV VAHV/FGERTIRTLTRRLFRCLR SSHDLVSSPVSHRRRRAGSRQR HRRARGGENVEYQWGALRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQT REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRLRKT VVAHVFGERTMATLGRMLSL SPFDVVIWMTDGWPLYESRLK GKLHVISKRYTQRIERHNLNLR QHLARLGRKSLSFSGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSPSRAAALRQLPR PFRQLAVRMEMISRFRSAKEQT KSLRKWRKAKSIF*SVAQTGFN VLVCTTIIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRRIVTGSMGRSL VPSAPLR/PSIVLVLFKAW*LV KTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	

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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPEWPTLDTSGYSA PR/WLFTAYAGSEAVFAHVFGD ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGKLHVISKRY TQRIERHNLNLRQHARLGRKS LSFSKSVEQHDKLESPLGQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTPDTRVATAYILNRVEDGEY GVAIAYGSILIVVMLAIFIFDWL IGESLLSRFEKTVDHDSQSRLPA EGSILSQDISGVKLFSLTLPARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLAVDALTPLSE LLSHVGQAPCSVPVVDQDQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPDLLGMPAPLAIV FALIACRFPGSNGRIRSRIRH LHKMPDATLSASYQAYVRHQT NVTALVLRSSHFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPTTQGEKFDHEGEFI RQWLPELRDVPKGKVVHEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHTPNLKPIWEVDLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTTSSTHPSLYIIL KRQTRELRPQSVTSRIQPGSDVI VCAEMDEQWGYVGAKSRQRW LFYAYDSLRTVVAHVFGERT MATLGRLMSLLSPFDVVIWMT DGWPLYESRLKGKLHVISKRYT QRIERHNLNLRQHARLGRKSL SFSKSVELHDKVIGH\YLNKHY

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPH\YGRWP QHDFPPFKLRPQSVTSRIQPGS DVIVCAEMDEQWGYVGAKSR QHWLFYAYDRLRKT VVAHVFA GERTMATLGRLLSPFDVVI WMTDGWPLYESRLKGKLHVIS KRYTQRIERHNLNLRQHLARLG RKSLSFSSKSVKITSGPTTNATP GTQKTATDKRGGKKLP IQIPGP ISRIASGAAIN\TISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFLGRIGDVS DESDDKTEAPTPHRLEKAREEG QIPRSRELTSLLILLVGVSVIWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVLVALISPVMLGGLVF SGKSLQPKFSKLNPLPGIKRMFS AQTGAELLKAILKTILVGSVTG FFLWHHPQMMRLMAESPITA MGNAMDLVGLCALLVVLGVIP MVGFDVFFQIF
22494	52862	A	22622	1	1233	MANDLPHSNSGDGQKPSSPDLF TAPLLADPTVGFLPNDAEELFIF LTEITEITIPCRVTD PQLVVTLHE KKG DVALPVYPYDHQRFSGIFE DRSYICKTTIGDREVDSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGA SRQRWLFYAY\DSLRRAR RVVAHVFG*RTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGKLHVISKRYTQRNERHNLNL RQHLARLG RKSLSFSSKSVELHD KPSPQHREGVKDVMRFNEPMY PLESRPRLYVCHLRNGAQASGR RCQLPMGCACHPVSRNDRPN RRPERHATRKT TTRQRQQNSRQ HKQTQKKAKPNKRRATERGKG PQQAERPKRHTHCFLKLQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLGK EDAAREIRRFSCCSPEPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDGDLVAFSS DEELTMAMSYVKDDIFRI*IKE KKECRRDHRPPCAQEAPRNMV HPNVICDGCNGPVVGTRYKCS VCPYY\DLCSVCEGKGLHRGHT KLAF\SPFGH\SEGF\SHSRWL\ RKV\KHGHF\GWPGW\EMGPPG\ NWEPTFLPRAG\EARPGP\TAES ASGPSEDPSVNFLK\NVGESVA\ AAFSPL\NFEVDIDVEHGGKRSR LTPVSPSSSTEES\SSSQPSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNCSG GDDDWTHLSSKEVDPSTGELQ SLQMPSEGPSSLDPSQGGNPQ GWKEAALYPHLP\PEVEPAA*F ESLSQMVPVPWGFS*LKGGWVH QGSCRPRNYD\GAAL\DTIPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGLGSLVDICGPSRVFPFWV VPAVLVPVQFVQRLPRFFRCPPV LVTSVIRSISTLIQALGSSPFARR YWGNLG*FLFLGVLRCSSTGS PH*PMNSVNDVSKHT/EVTPF GNPGNNGSYHLTDAYRRLARP SSPLT\PGHPPLYG
22498	52866	A	22626	243	454	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPCSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCRR ADSASSHATSGSSSRGCAGSGR CGASSTRRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSEI HRMDNTAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFSKSVELHD KQQGLDAALIDAPLAVDAQTP LSELLSHVGQAPCAVPVDED QQYVGIISKGMLLRALDREGGV RVPVIYPKRFRRTTDCMPLSLG TCIREIEAEFPDPIFRRSVYICE HNTNGAMGIIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETGTDK QPSDVLVALGYASWEKGQLEQ EILDNAWLTAADLNILFKTPIA DRWREAAKLIGVDILTMPAQD GTPDWNIIERLLKEWQPDEIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGVEVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVHILESIFYEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRLRGSGLQSR LCPG ASV*ATDGVVRNGKSTAGHQR YLCSHCRKTWQLQFTYTASQP AGQ*REKEEKEEVEEEEEEEKK KRRREGEKEEKEEKEKEKKKK FKKKKKKKKKKKKKKKKKKKKK KKKKKKKKQLSLVTVMSSQQCQL WRNEARTTGACLPSP TVSAAAP PIVSTTVTAFAAATLAKGDLRS RASSKQVPLLVLVWVWPHPG WFKAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSLTPLL NPPGSD VIVCAEMDEQWGYVGAKSRQ RWLFYAYDSL RKT VVAHVFG RTMATLGR LMSLLSPFDVVIW MTDGWPLYESRLKGKLHTQER KARSKQQKDADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAEAQAT RTHTGRRKTIKETATQQAYADE QTRRTARTHRRTARHTAAH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRQHQATR RETTTNAHTNTPHYHAEHTQSR SQQQTTSTERPTTDSSTTINNNN HTPRTVRDERRMTQHKHPSRA STTTNRTTTTGAYQHTQRDTRD TRRDTHEDTTTQPHTTTPTAN EAAYTAHTTKTDDHRHTADD
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RVGTGTSERREQUIQ RLRQQGSVQVNDLSALYGVST VTIRNDLAFLEKQGIAYRAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTTFEIALMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPPDISAI SALTAVKHGNCSSLTPLLNPPG SDVPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTVVAHV GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGKLHVIS KRYTQRIERHNLNLRQHLARLG RKSLSFSSKVELHDKVIGHYLN GDFLQSTLREAPLIPHTREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRTG TSGGVCHALSSLRCPSCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RFLSK QEKTLINQLASEEQQKVTSRL SDALRNGRVWQLAIHYLTIQVA VYGLIFFLPTQVAALLGTKVGF TASVVTAPWVAALFGTWLIPR YSDKTGERRNVAALTLLAAGIG IGLSGLLSPVMAIVALCVAAGF IAVQPVFWTMTPTQLLSGTALAA GIGFVNLFGAVGGFIAPILRVKA ETLFASDAAGLLTLAAVAVIDR RGTSNLRLRNTMIALLSNPFKE RLRKGEVQIGLWLSSTTAYMA EIAATSGYDWLLIDGEHAPNTI QDLHYQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVFG ERTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGKLHVISK RYTQRIERHNLNLRQHTGTGW DGSRCRSQKSGGAA
22508	52876	A	22636	91	200	SGHAFQYLLMTLKVLPVASVSI SCPSCSATDGVVRNGKSTAGH QRYLCSHCRKTWQLQFTYTAS QPAGQ*RGGA

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22509	52877	A	22637	2649	3270	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTIGRAML KNKHMTITEFVAQRMRAQQK GEISPDINTAMTSRLLLDLTYGV LADIEAEDLARKRRLLRITRDD WRYLNRILILSLFRRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCGIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIKPGWAGQRIVLRF DAVTHYGKVVVNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAAFNKGETAM TINGPWAWSNIDTSKVNYGVT VLPTFKGQPSKPFVGLSAGIN AASPNKELAKEFLENYLLTDEG LEAVNKDKPLGAVALKSYYYY LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDEALKDAQTRITNCCRI RRESLIRPGMRKNPMDVIKKKH WWQSDALKWSVLGLLGLLVG YLVVLMYAQGEYLFATTLILS SAGLYIFANRKAYAWRYVYPG MAGMGLFVLFPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREMRPGAKAERTRYDSPGSY GVAGPGFLGSRGGSPFGGPGKY NNTITKYALNIAPSAQNQSPHG PKLNRRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDDS NNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWSANDLTGITAKD AQMLSVVKPLQEFGLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLGIT QAPYIMGLADGLMKNDIPYKLI SEGNCTGYHLPKQTTITLEQN QLWRDAFYWLAWHNRILELRD VQLIGHNSYEQFAHIFMIAAM QMGSVWGDDFSSGQHSVARKS QLHKPILRVKCHEGFTISANPNS SPRYPTIIEQAEQPRIVDFSIVRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIDPRYTDTGAGREDEWIPIR PGTDAALVNGLAYVMITENLV DQAFLDKYCVGYDEKTL PASA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRKTWQLQF TYTASQPAGQ*RYTDTGAGRE DEWIPIRPGTDAALVNGLAYV MITENLVDQAFLDKYCVGYDE KTL PASAPKNGHYKAYILATDG WCVPPKAPPDISAISALTAVKH GNCSSLTPLL NPPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSL RKT VVAHVFGERTMATL GRLMSLLSPFDVVIWMTDGWP LYESRLKGKLVHISKRYTQRIE RHNLNLRQHLARLGRKSLSFSK SVELHDKVIGHYLNKHYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGSCPCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RKLTPGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPLDIDLPLIVKD TRLAFGELAAWVRQQV PARVV ALTGSSGKTSVKEMTAAILSQC GNTLYTAGNLNNDIGVPM TLL RLTPEYDYAVIELGANHQGEIA WTVTHPPRFVTKQWLCFLPDG LLLFAEARFVIWQM QPAVM AV DVAFAHLFNQQQYQRFTGRP PDSSKLPWKITCN GECVTFHW WLLGVA VRISRLLPVRVM TAL EGNYNGTEGISALPFNGI LAHS NESEWVTFRNNKNNEAFLDRV YIVKVPYCLRISEEIKIYEKLLN HIFECWQHFLN NPESLQCYIWA ANADFREARQVIFKTFFTVGVE EELGIRQTRTNDFLVTGDNLLRI FRFDVGNEDKVRQQFAVVRIH REVFLVTFHGVNQRF SRHREEF LFEFCVSVTANLTRCFFGIGFNL RLTFFVIGDDFPTLTQNFRI LIGV IDGEFRLAHKAVAANHAIGLNA QNGCRNDFVAHAAGSRALAAD GRSLEHAPT VETV VAGPLCESG DVFTQQEGGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSLTPLL NPP GSDVIVCAEMDEQWGYVGAKS RQRWLFYAYDRLRKT VVAHRL

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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RDIVLTK LMMVWHSQSGYEKAYAHQR WWYRAILLTGWCVTAKALPD ISALSALTAVKHGNCSSLTPLL PPGSDVIVCAEMDEQWGYVGA KSRQRWLFYAYDRLRKT VVAH VFGERTMATLGRMLSLSPFDV VIWMTDGWPLYESRLKGKLVH ISKRYTQRIERHNLNLSSTSILVL LNGATQFQDLGDLNKELEETY TDSKNHISCVGNDGFGNDIFSR YVEAVGREGDVLLGISTSGNSA NVIKAIAAAREKGMKVITLTGK DGGKMAGTADIEIRVPHFGYA DRIQEIHIKVIHILIQLEKEMVN FTGLVQRGGGTGPHKDGWGIT FYEVAFEDVAVNFTQEEWALL DPWQKKLYRDVMLETYRNLAS VGDDDNIPSLREQVAHQRYFKT WHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKVPMPRSYSL FLFTISNSAGVFRCPSCSATDGV VRNGKSTAGHQRYLCSHCRKT WQLQFTYTASQPAGQ*RLLGP KNRPREQNWLLWCERGVM SRL QALYLREQGFNNVKVDNFQTK VDSCTRPLAGQQFYPCIPDDAL VQPLFGGNFVFQRREAGHITNR EDIVRHQHGGWRGANSRDDTP GTVELFNGFNQQSAIAKTLRAF NATRQHDHVIFAISHFDQRRIR QQLHAARAGNRQVTIAGDAGS GDFDTAANQQIDSGDGFSLFTT RGEANQCRCACAHHSPPFLPFQT VRVFSAVPPVQLLTGWCVTAK APPDISAISALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSL RKT VVAHVFAVKPYWDTGGGFHC RWIYMQQEKELLQLSLQQGKY NQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	RIQRYCGKTGCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTVYTASQPAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIRVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTILCGV VSMGNPHCVIQVDDVDTAAVE TLGPVLESHERFPERANIGFMQ VVKREHIRLRVYERGAGETQA CGSGACAAVAVGIQQGLLAE VRVELPGGRLDIAWKGEELQET LTELDRAVVDYLIKNPFFIRN ARAVEAIRVPHVVRGTVSLVE WHMARARNHIHVLEENMALL MEQAIANEGLFYRLLYLQRSLT AASSLDDMLMRFHWARDLG LA VAMPVTINKGNQIENQLDT ETITISYEFILCQHLIANTEFSYL ALPENYNRLCLPNSKNQTNRF KTLNSKAIGRLLAAGGVYNGNI EGFRDTAEKLA VPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQPAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPSCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIIPRLEDK SIALLAMTGKPTSPLGLAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQQV QGVFTDGDRLRWLVGGGALT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQVRKSGLPY AECSTYPSCPVALDLAFASHGI HMHAPGEALRMLVTAMDCAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMSVLR SLLTAGVSLASGLLWSLNGITAT PAAQASDDRYEVTQQRNPDA CLDCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPVSDVIVCAELD EQWGYVGAKSRQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTAGHORYLCSHCRKTWQLQFTYTASQPAGQ*RLLNRLIEPTRGQVLIDGVDAIKISDAELREVRKKIAMVFQSFALMPHMTVLDNTAFGMELAGINAEERREKALDALRQVGLENYAHSYPDELSSGMRQRVGLARAINPDILLMDEAFSALDPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAIMQNGEVVQVGTPDEILNNPANDYVRTFFRGVDSQVFSAKDIARRTPNGLIRKTPGFGPRSALKLLQDEDREYGYVIERGNKFVGAVSIDSLKTAAVPPVQLLTGWCVTAKAPPDISAISALTAVKHGNCSSTPLLNPPGSDVIVCAEMDEQWGYVGAKSRQRWLFYAYDSLRTVVAVHVFGERMTATLGRMLSLSPFDVVIWMTDGWPLYESRLKGKLVHISKRYTQRIERHNLNLRQHLARLGRKSLSFSSKVELHDKVIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMERQAEAKITTDYINSGGSEGDEKLQNMIKAQNDYYAAEDAKRADWLAGAESAFADYGDSAMDMYGNVNEIASSALNGMTDMMVQFLTGTGKANFADFANKNIISMIKMIAQMVIFNTSLRNDGRSVSSGGA AVSLAAAAGSVATSGFNASNSAPKVVTIREVERSDVSGMEASSTSWITIRSFTAETSTFGPTMTASMTFLPTYCSIIASLLSSFKLAATDGVVRNGKSTAGHORYLCSHCRKTWQLQFTYTASQPALARNPNRDITIYWGGREEQHLYDLCELEALSLKHPGLQVVPVVEQPEAGWRGRTGTVLTAVLQDHATDGVVRNGKSTAGHORYLCSHCRKTWQLQFTYTASQPGTHQKIIDMAMNGVGCRATAR\IMGVGLNTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTENQTPH VLTHKWELNYENPWTQGGHEL TMGLVVGWRGLQEGDPARTN LSYYQANVGSGQHRENGKPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKDRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLLNPBGSDVIVCAEMDE QWGYVGAKSRQRWLFYAYDS LRKTVVAHVFGERTMATLGRL MSLLSPFDVVIWMTDGWPLYE SRLKGKLVISKRYTQRIERHN LNLRQHLARLGRKSLSFSSKSE LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPGEPAAGRAAPKSGGKRL GGVLGRGGVGRSGSPDRSGA HSAAPRRCRQLPGRCPSCSATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAGQ*RSK GAIGEGPPDPRGIVEQNLGGDIS IPCYNPRPRRRAQKTTLGPLN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEGDGDAGH MRPRPAGRAEARRRRLRGNP PPGARLPNREGNGSGVSWAAE VSGDGRGARTEAARTRRRPGG ADNYPGAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPBGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRLMSL LSPFDVVIWMTDGWPLYESRL KGKLVISKRYTQRIERHNLNL RQHLARLGRKSLSFSSKSELHD KVIGHYLNKHYQ
22522	52890	A	22650	23	658	VISRPGSSIQVRGLLSRHGLAL GSAPDLWKLPWVNLVQGMGQ QSQGSSCREGCSRQCPSAAPC GAAPAHFCSAATFWESEVQSIP R/CRATDGVVRNGKS/TAGHQR YLCSHCRKTWQ/LQFTYTASQP EVIRSSPTSAPRSDGKTVPPLM GISP*SAHRLATSDPSLCLSES LCSREPAAVPRASNQQPQGVK DVHHQFTARTSRYPSC
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSRQNPRCGPCMVVVPGQ SGRSVSADSSTEFREQGGSVAIIS FPKSINRAGPELFRFMENPFNSV *YRKNVRELTPAIMAVLPVEFR TRLAPQNDTMSLIASAMKECSE AKQAVLLNAPEHQKMKEVSEG IASLFRMLPEQVGPLMTMVT MLGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAK SG*CESGNDLLSSSHMNQLR/A/ ESIPEDVIAGASALVLTFIKFI AENPQWWQQFLKDHVSILAMN EDEAEALTGESDPLLASDKALD WVDLVLCTAGPIGLYMAGGGD VN
22530	52898	A	22658	1611	3300	QSAWANRHLRVLDCGRPGNGSD AGVAARSGRNDGTGRCLCHS CSRYGDHHRQSDRIYRHYDAG RSPSGAVDYGTRQGNRFSRAV YPVGA/RRWR*GLPLV/QQFQPE NETSAAWVVGINQPLVDIEAK VDDEFIERYGLSAGHSLVIEDD VAEALYQDVQQKNLITHQSAG GTIGNTMHNYSVLADDRSVLL GVMCSNIEIGSYAYRYLCNTSS RTDLNLYLQGVDPGPIGRCTLIG ESGERTFAISPGHMNQLRAESIP EDVIAGASALVLTSYLVRCKPG EPMPEATMKAIEYAKKYNVPV VLTGTFVIAKNPQWWQQFL KDHVSILAMNEDEAEALTGESD PLLASDKALDWVDLVLCTAGPI GLYMAGFTEDEAKRKTQHPLL PGAIAEFNQYEFSSRAMRHKDC QNPLRVYSHIAPYMGPEKCN LGRSGWLLYGRGLDKQRLTQY QSKLGAAMVIVAAWCVEDYQ VIRLAGSLTARATRLAHEAQLD VAPLGKIPHLRTPGLLVMDMDS TAIQIECIDEIAKLAGTGEMVAE VTRTGDARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTTLQKIRWTLS VVDPTLALRVPLPALSIRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRRTVPAVTASGR SVKYYPPDFDPSKIPKLKLPKD RQYVVRLMAPFNMCRCKTCGEY IYKGKKF\NARKETVQNEVYLG \LP\FRFYIK\CTRCLGRDSPFKT DP\ENTDYTE\ESLGATRNFQG* EASWEEEEKRV\QK\EREDE/ES LNNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEG\ MLRQHRLSEEERRSQQQEEFEQ KTAALLEEARKRRLLEDSDSED EAAPSPLQPALRPNPTATLDEA PKPKRKVEVWEQSVGSLGSRPP LSRLVVVKAKADPDCSNGQP QAAPHPRSPAEGGQPYTPDA WRVLPEPTGCIPGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGWSWLPGRTLWKEKVRFLKS KERTNPGSNFFSFPQSQHTREER SQECLSLPVLPSYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLGCLHL TLPLPCPTPLPPKSTKSGCFSLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGAWAVEGTAVALRLRL LLLLPPAIRGPGLGAVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTERS NEETFGYESPIQREGGLTCWSL KFAEVYFAQSQQKVFDVRLNG HVVKDLDFDRVGHSTAHEI IPMSIRKGLSVQGEV\ST\FTQG KLLPLSFSKGYL*PIPKVCAL\YI MAG\TVDDVPKASAFNPGLEK KEEEEEEEYDEGSNLKKQTNK NRVQS\GPRTPNPYALDNSSL MPILV\AFGVFIPTLFLCLRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRAS/VTVEGEVTGEIGAGLLV/LLGVEKDDDEQKAN/RDAEGQM/NLNVQQAGGSVLVVSQF/TLAADTERGMRPSFSQGHHRIRAQAFYDYFVES/CRQQR*YAQGGLSAEFRLLS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTSIVLNALNALGVSAEASGRNDLVVKTVEGDRKVS GSAYRETKDRGFHHGTL LLNADLSRLANYLNPKKKLA AKGITSVRSRVTNLTLLPGITH EQVCEAITEAFFAHYGERVEAE IISPNKTPDLPNFAETFAQQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDVEKGHITRAQVFTDS LNPAPLEALAGRLQGCLFSLYN SDLNTVIDNVLRJFPLLSWISF WLLYSIVPTIRVPNRDAIVGAFV AALLFEAGKKGFALYITMFP SYQLIYGVLA VIPILFVWVYWTCV TVEGEVTGEIGAGLLVLLGVEK DDDEQKANRLCERVLGYRIFSD AEG\KMNLNVQQAGGSVLVVS QFTLAADTERGMRPSFSKGVID DIGFNTEISQTRFHQASHLFKRK GIYRLHFARRRCQQIQRQR RR RFMQRTAVAITHQQRMKQGIL RLWRNWLLWLLILLRRNRLL RLLILLWRNRLLRLLWLRR NRLLWLLILRRNRWLLRLLIL LLRCNRLLRLLYRFNNWRKQR FVWTIIQQR FHWRFKIIQRERI RPSRLFAGITLLSLRKLTSQFS LCRSICIFCVYGHIMLILFAIAL LCLGELTCQFILLHRIDFIIVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPKTAQLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTDTQCRHTSSS IGKRLAFCQNLQIHTESTMKP WILLVVMFISGVVMLLPVLGSF WNKDPFLDMIRETEQCWVQPP YKYCEKRCTKIMTCVRPNHTC CWTYCGNICLD/IRRAP*/HQC* TPRFYWPITTVG*RMTIWSKKS AAYFLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	

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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGCRK AER\CPCPKGAYSL/YCRESVCC LPSFVNKNSSSLCVAHNWGRH CYLWTAADV KQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGS*F DRGA EVCNQT DWQSIRSSQGG RDQRFSTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGQGP DVQLMNGHERSPS HSPREAKKSGSPLPTDIHCFSPQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPPGYTGA FCEDLCPPGKHGPQCEQRCPCQ NGGVCHHVTGECSCPSGWMLS FPGWRPI*FSKSL*MQGTVCGQ PCPEGRFGKNCSQECQCHNGGT CDAATGQCHCSPGYTGERAAV PDVRK\CQDECPVGTYGVLCAE TCQCVNGGKCYHVS GACLCEA GFAGERCEARLCPEGLYGIKCD KRCPCHLENTHRGDDREKA EF GHLLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNTEEEL AVNYVYSIYASKEQIRYKHGRS FANGHVKELMEGPSRRIAGSGG EKYKRDEEKNTLLRGQNRGGR GKNPKKTKAWVKIQGQNKIEIS GVGADRKRFFREK

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22551	52919	A	22679	1	2210	MEQKGEFKNDTLIYEFFHIVAK PHPLPIKSSTYTTTFQSARVTRFF LDAEKECRCQEGQVEAALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLH VRWASTATIGQVSGFPGKIRVS PTTNLGDSDYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDG RLYVTNPCGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGGLPTNETTFAKILKEK GYATGLIGKWHLGLNCESASD HCHHPLHHGFDHFGMPFSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLTHLIP VSWMPVIWSALSALLASSYF VGALIVHADCFLMRNHTITEQP MCFQRTTPLILQEVASFLKRNK HGPFLLFVSFLHVHIPLITMENF LGKSLHGLYGDNVEEMDWMV GRILDTLDVEGLSNSTLIYFTSD HGGLENQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVIGEPTSLMDVFPT VVRLAGGEVPQDRVIDGQDLL PLLLGTAQHSDFEFLMH\YCER VLHAARWHQRDRGTMWKVHF VTPVFQPEGAGACYGRKVCPCF GEKVHHDPPLLFDLSDRDPSET HILTPASEPVFYQVMERVQAV

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22552	52920	A	22680	185	2091	GSTERDNMLHLHHSCVCFRSW LPAMLA VLLSLAPSASSDISASR PNILLMA\DDHGVGDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT TN\ETTFAKILKEKGYATGLIGK WHLGLNCESASDHCHHPLHHG FEHFGMPFSLMGDCARWELS EKRVNLEQKLNFLFQVLALVA LTLVAGKLTHLIPVSWMPVIWS ALSAVLLLASSYFVGALIVHAD CFLMRNHTITEQPMCFQRTTPLI LQEVASFLLKRNKHGPFLLFVSF LHVHIPLITMENFLGKSLHGLY GDNVEEMDWMVGRILDTLDV EGLSNSTLIYFTSDHGGSLNQL GNTQYGGWNGIYKGGKGMGG WEGGIRVPGIFRWPGVLPAGRV IGEPTSLMDVFPTVVRLAGGEV PQDRVIDGQDLLPLLGLTAQHS DHEFLMHYCERFL\HAARWHQ RDRGTMWESPTL*PPCVSSQEG AGAC\YGRK\VCPCFGEK\VVHH DP\PLL\FDLSRDPSETHILTPASE PVFY\QVMER\VQQA VWEHQR TLSPVPMQLDRLGNIWRPWMQ PCCGPFPLCWCLREDDPQINVC SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRRTLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRCSSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGDSGKRSSDSEAFET PESTTPVKAPPAPPPPPPEVIPEP EVSTQPPPEEPGWGSETVPVPD GPRSDSVEGSPFRQTQAHFSGVF DEDQPIASTGTDILDNDIELVD TFQTLPRASDAKNQEGKVNT RRKSTDSPISKSTLSRSLSLQA SDFDGASSSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPAKGLSVRLFYSE DKSSWDNQENPPPTKKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDDPNFNPFSSTSKMQES PKLPQQSYNFDPDTCDESVDPF KTSSKTPSSPSKSPASFEIPASA MEANAVDGDGLNKPAAAAKT PLKTMVEDVMSVCSLFDTRV KKSPKRSPLSDPPSQDPTPAATP ETPPVISAVVHATDEEKLAVTN QKWTCMTVDLEADKQDYPQPS DLSTFVNETKFSSPTEELDYNF YEIEYMEKIGSSLPQDDAPKK QALYLMFDTSQESPVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLPRREGLSPALLEET PLEPAVGPKAACPLDSESAEGV VPPASGGKRCLFTTAPEAGEVT PSDSGGQEDSPAKGLSVRLEFD YSEDKSSWDNQQENPPPTKKIG KKPVAKMPLRRPKMKKTPEKL DNTPASPPRSPAEPNDIPIAKGT YTFDIDKWDDPNFNPFSSTSKM QESPKLPQQSYNFDPDTCDESV DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDGLNKPACKK KTPLKTDTRVKKSPKRSPLSD PPSQDPTPAATPETPPVISAVVH ATDEEKLAVTNQKWTCTMTVD LEADKQDYPQPSDLSTFVNETK FSSPTEELDYRNSYEIEYMEKIG SSLPQDDDDAPKKQALYLMFDT SQESPVKSSPVRMSESPTPCSGS\ SFEETGSPLRNTAA\KNQ\HPVP TRDWAP*PRSSHLAGCQRKSSQ E/VELGGPWGLGHPFQEGDLKF TASPRGSFASADALLSRLAHPV FSL/CGALDYL\EPNFRQKRNP LFAQKLQREA\VHPTDVS\SKT ALYSRIRTTEVEKPAGLLFQQP DL\DSALQIARAEI\TKEREVSE WKDKYEESR\REVMEMRK\LA EYEKTIAQMIEDEQREKSVSHQ TVQQLVLEKEQA\LADLNSVEK \SLADLFRRYEKMKEVLESFRK NEEVVKRCAQEYLSRVKKEEQ RYQA\LKVHA\EEKLDRANAEM
22559	52927	A	22687	374	1268	AETNMVWYDWMRPSHAQLHS DYMQLPTEAKAKSKNKVRGV QQLIQRLRLIKSPAIEIERMQIAG KLTSQAFIETMFTSKAPVEEAF YAKFEFECRARGADILAYPPVV AGGNRSNTLHYVKNNQLIKDG EMVLLDGGCESSCYVSDITRTW PVNGRFTAPQAELYEAVLEIQR DCLALCFPGTSLNIYSMMTLTI GQKLKDLGIMKNTQGG*CL/RR LLE/QYCPHHVGHYLGMDVHD TPDMPRSLPLQPGMVITIEPGIYI PEDDKDAPEKFRGLGVRIEDDV VVTQDSPLILSADCP

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22560	52928	A	22688	329	1389	RIWKTQMMRMKKMMMMMM MMMRITLFFQQESQEAIFFPFD LFPMCPFGCQCYSRVVHCSDLG LTSVPTNIPFDTRMLDLQNNKI KEIKENDFKGLTSLYGLILNNN KLTKIHPKAFLTTKKLRLRLYS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RCS /YIRIAEAKLTSVPKGLAPPTLLE LHLDYNKISTVELEDFKRYKEL QRLGLGNNKITDIENGLANIPR VR\EIHLGNILKKIPSGLPKLY LQIIFLHSNSIARVGVNDFCPTV PKMKKSLYSAISLFNNPVKYWE MQPATFRCLVSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRGRPDSSMPDCCRNA ALEARSCQSMSTLFSNTVSPTQ DGTSSLPRRQSSFAPPLRALY DLIAPMEGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSSLENEEDNTQCNRLAQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCPVSSCYKA WYTLAVSKVSGMVEGKAWIIL LLLAATHALLQRPQEGDITPL AGSRAAAVSCQARPFSTFSGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRFRPTASFIWASVLFE TIRHEAEVSTDYKLSLFDLQTS YQALQRVLVSLGHHDEALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGYLYSWLLAPGAG IVKFHEHYLGENTVENSSDFQA SSSVTLPTATGSALEQHIASVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLSNSVTDPT GFLRMVRRNNLFNRSCQSMST LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

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22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPRTIRWRA PGKGLRLYTHPPTSDIAGRTGA AASFPAPLHLPREPRAGVDGTD AERILYPRRAAPAASGVGSRPA GEAVRADEAGAAGLGGFQSER NRSWGGESLGSRQPQKMPAFN RLFPLASLVLIY*VSVCFPVWGE VPLENGGRARANPMKLRISC MKREEVEATTVVEWFYRPEGG KDFLIYEYRNGHQEVESPFQGR LQWNGSKDLQDVSITVLNVTL NDSGLYTCNVSREFEFEAHRPF VKTTRLIPLRVTEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEPPSAK
22569	52937	A	22697	277	527	VRVSWEYFCAPGPAGSPAGPG RGEEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGRVRACG RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNYTKCHVRNEQICNKLTSCKSCSLNLCQWDQRQQECQALPAHLCGEGWSHIGDACLRNVSSRENYDNAKLYCYNLSGNLASLTTSKEVEFVLDEIQKYTQQKVS PWVGLRKINISYWG WEDMSPF TNTTLQWLPGEPNDSGFCAYLE RAAVAGLKANPCTSMANGLVCEKPVVSPNQNARPCKKPCSLRTSCSNCTSNMGMECMWCSSTKRCVDSNAYIISFPYGGCLEWQTATCSPQNC SGLRTCGQCLEQPGCGWCNDPSNTGRGHCIEGSSRGPMKLIGMHNMVLDTNLCPKEKNYEWSFIQCPACQCNGHSTCINNNVCEQCKNLTTGKQCQDCMPGYYGDP TNGGQCTACTCSGHA NICH LHTGKCFCTTKGIKGDQCQLCDSENRYVGNPLRGTCYYKTLIDYQFTFSLLQEDDRHHTAIYFIVNPKQSNKNLHISINASNNFNLNITWPC*STAGTISGEETYIVSKNNILEYRDSFSYEKFNFRSNPNITFYVYVSNFSWPIKIQIAFSQHNTIMDLVQFFVTFSCFLSLLL EAAV VWKIKQTCWASRRREQLLRERQQMASRPFASVDVALEV GAEQTEFLRGPLEGAPKPIAIEPCAGNRAAVLTVFLCLPRGSSGA PPPGQSGLAIASALIDISQQKAS DSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSCRPELALE*G*SVRDVA*AQMCSVVWAGRPLGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGSLTKMFKVISEGPM D*RPHPKVRPMT*HSTPAPANFMGHFFWKIMICTDRTEVATLVAGVVSGASVGGKSPPYRKWNSPEPDVKGPRVL
22576	52944	A	22704	2	382	

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22577	52945	A	22705	1	479	HMPSETAPLRIVDTGTGTGTV \AYAPTE\LGLHEMHIKYMASHI LESPLRFYVTTPTVPSVSA YGPG LVYGVAN/NTATFTIVTEDAGE GGDLAIEGPSKAE EPRPRLSRA PGVDGAGAS PGLGEDTGPQAP GLQVLTERIPGPSAPTPEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREDICVVD GWQSFRRQDYAFLQERGSGGD LWSSTLAQAMTLVESRHPRHQ ALSTQLLDAIMPYCGNTLRLGV TGTPGAGKSTFLEAFGMLLIRE GLKVAVIAVDPSSPVTGGSILG DKTRMNDLARA EAA FIRPVPS GHLGGASQRARELMLLCEAAG YDVVIVETVGVGQSETEVARM VDCFISLQIAGGADDLQGIKKG LMEVADLIVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKVNLLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGC\RT CEIVACVVAHPSEQELNADVFL PRLKVQRLDSISAPVMCHQCEN APCVGACPVGALTMGEQVVQT NSARCIGCQSCVSACPFGMITI SLPGDTRQQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAKIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFPVHPVCAVSVRLHPV VALLQQFRDTERTHRYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPVQVTWYGDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVFPVVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMKNQMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE VARQMNAIASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDESLVQ RLNILHENGFIALLDDFGTGYS GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIIHQIHTGEKPYECT ECGKTFSRKSQLIHQRTHTGEK PYKCTKCGKSFCQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRQFRLHGOIRELNWDVVR PEQFTGVATNCSGITYPQGGWL CPAELTRNVLELAQQQGLQIYY QYQLQNLSRKDDCWLLNFAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTTPELAE LKQVLCYDGYLTPQNPNQHH CIGASYHRGSEDТАYSEDDQQQ NRQLIDCFPQAQWAKEVDVS DKEARCGVRCATRDHLP MVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPMAS TLAALNPRLWVRKLLKGKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIRIMPQTRQVT LPDPELHPDSTLSMWPD/NRIAR DAHLYRYDRHGRLTEKTDLIP EGVIRTDDETRHYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRRVAKRVWRRERDLTGWMS LSRKPQVTWYGWDGDRLLTIQ NDRTRIQTIIYQPGSFTPLIRVET ATGELAKTQRRSLADALQQSG GEDGGSVVFPVLVQMLDRLE SEILADRVSEESRRWLASCGLT VEQM QNQMDPVYTPARKIHL HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNTDPLGLEVFPRPFP LPIWPWKSPAQQQQWYPTFCC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSSERGKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIIILPNAAIRQEFGITLDPEEV FTFQGVKLYEYRYFPDCVRSRN EAGILVEQILSTLFSVGEHFSLK RAPFFKVPSLRSFYAFGGLTTG VVRNNGNHGVNTPARKIHLHYH CDHRGLPLALISKEGTTEWCAE YDEWGNLLNEENPHQLQQLIR LPGQQYDEESGLYYNRHRYD PLQGRYITQDPIGLK\GGWNFY QYPLNPVQYIDSMGLASKYGH LNNGGYGARPNKPPTPDPSKLP DIAKQLRLPYPIDQASSAHNVF KTFFRALSPYDYTLYCRKWVK PNLTCTPQDDSQYPGMDTKTA SDYLPQTN/WPVPSSIVSCTTG VP*VVCQWVFAWPPDISHRRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVGSCGAVLPHV KLRDV/VI/GMGAC/TDSKVNRI RFKQGAFGGIADFAMGRТАVD PGKALGINARVGNLVSADLFYS PDGEMFDMKEYGILGVEMEA AGIYGVAAEFGAKALTICTVSD HIRTHERQTТАERQTTFNDMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRVIDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGFRL*SSPKVGMQ HGSRQVDHRTQRALRFFRQPGI DFLRPVFTPRRQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCCGAMHTCPSGPATHLV RRRIVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQYA\ARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVVIGMGACTD SKVTRIRFKDHAFAAIADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEMFDMMEKYGIL GVEMEAAGIYGVAAEFGAKAL TICTVSDHIRTHERQTAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEV DARLTKEAQA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGRGRDRALAQLLCRITG AEDACIVNNNAAVLLMLAAT ASGKEVVVSRGELVEIGGAFRI PDVMRQAGCTLHEVGTTNRTH ANDYRQADFQFDDFVMAFTQN INGPTQNTALHGGHGRPDLFP LLGAFHGAIDILAPGGLHGYSL PSSFFHALALSAAFPGKRCKLS VHLFWGLKDGGPLLTAPLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRISHRHHHFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSLS/ KIR/QEVG/PPLP/PLLAPLIATPP RTSQPLSPLISSSSPSPASPVGQ VSPFRETPVPPAMSPWPEDPRR ASPPDPSPSAASASERVVPS LQFCAATPKHALPVPGRLLPPCA SGHAMPCWRRAKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSVWAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRSAEK* ESPCSSDAFHAIFSVLSGLALHS TTTSLCSSTSGQLVCC**TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPFERQP*E PAK\SMPDHPKHECVYVVGE*D PAPHPNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPRELT*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTL CQLD SGAECH YRETGVLELP*RSRPPVGHGSSR HSRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIAS TLINANQ NSVSPYKRTFTRLTALMIKKA AAQIHVGTSGNQYWRKLD FNS PGGSSPVENS DCSTNSRLSFSPE NILIQNQDIVREAAVQGDGQKQ RQPQATDL DSSGTHGSEMLPAT EVTVSGGFSVEETSCGDTGRSG GEALAVANDSTSTPQ NANG LW KLKSTTPGGALPECFGTTDTTFS SAFCRKHGETQDTSQSSLPGTL HCYTGIREGGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFVKSSQDPV LLSRIAWKDASTVTWVIEQDPV LRRRRRRTRRRRTRMRRRRGR* */SKRRRMR/GRRGRR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALRELGIV LFLSVVGLKSGLSWIGYGALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGA WRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHPGIYISIAERV/*I RLNSANFTLNSLLPAEKKLAEE FAVSRMTIRKAIDLLVAWGLV VRRHGSGTYLVRKDVLHQTAS LTGLGEVLKRQGKTVTSQVLIF EIMPAPPAIASQLRIQINEQIYFS RRVRFV\EGIPLMLEDSYMPVK LFRNLSLQHLEGSKFEYIEQECG ILIGGNYESLTPVLADRLLARQ MKVAEHTPLLRLITSLSYSESGEF LNYSVMFRNATQIQGWRSFR R\LHPKKS LTVPPERAPPVFGGL IMRKNHSQRIDSGVRERRRTAG WMKIISKRQRRRIGHGTCQHPA HGQVIHFG
22607	52975	A	22735	2	285	GDEMTTSTLQKAIDLVTKATEE DKAKNYEEALRLYQHPVEYFL HA\IKYEAHSDKAKESIRAKCV QYLDRAEKLKDYLRSEKHHGK LCLKDRV T
22608	52976	A	22736	545	791	
22609	52977	A	22737	249	1574	NHKAIDLVTKATEEDKAKNYE EALRLYQHAVEYFLHA\IKYEA HSDKAKESIRAKCVQYLYRAE KLKDYLRSEKHHGKPKVKENQ SEGKGSDDSDSEGDNPEKKKLQE QLMGAVVMEKPNIRWNDVAG LEGAKEALKEAVILPIKFPHLFT GKRTPWRG\LLFRPPGT\G\NSN RPGAGAPKATNSTFFSVSS\SDV KSKRLGETEKL V*NLFE\ELARQ HK\PSIIFIDEVDSL CGSRNENES\ QAARRIQNGSSLVQIAGGLGIN NDGDSGFFGATNIP\WVLD\SAI R\RKV*KTKFYIPLPEKACPRPD VSRLHLGSTPHN\LRVATFHKL ARKTEGYSGADISIIVRDSL MQP VRKVQSATHFKKVCGPSRTNPS MMIDDLTPCSPGDPRAMEMT WMDVPGDKLLEPVVCMSDML RSLATTRPTVNADDLL\KVKKF SEDFGQES
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLLDAGLTI PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLLPLQPV TARL CLNPRLRRQRKIRMPAGTKWQ RLCPLIGDR*RHRQRSVYALS VRHNPVHHILRKNGDMYSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPNVVAAGVP CRVILEINDRDK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPFPASLIHHPKPAK LPGWLCIVQWSLLAITRTPPV RWAQQTETVGLVVGDVSDPF FGAMVKA VEQVAYHTGNFLLI GNGYHNEQKERQAIEQLIRHRC AALVVHAKMIPDADLASLMKQ MPADKQCESIPDQNNQTGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYLDVEFLSVALA VVHLGPQGTC SRLFLVARALV VAVSEMDKSLSAQAAQIYFASSN GPVPDLAYQVDFPRLEIGL*FÆ YVDTGAETTLVPGDVLYVPAG GWNFPQWQAPATTFSVLFGKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLLQTLNEMQ MQPQEQQTARLIVASLLNHCR DLLGSQIQTASRSQALFEAIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFNENLSHTR LGHA*TLLKGYDLKVKVAHA CGFVDSNYFCRLFRKNTERSPS EYRRHRLHDNRICQFKTPTDN PENPDRLTFRRIDKETSSLPKK VAPSCRLSVSRSSPKPSISIRRC MRLMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLERYNIDTFGLNAV VIGA SNIVGRPMSMELLLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWIKEGAIVMMSGI NRGVATDASCFPLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	

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22621	52989	A	22749	1	2797	MEHPPVLAVQRVALPSRSSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWIPVAPGVREPSPLGP GPSSLWLLVVGTVVEEGSRKH RPTCKKDFTKSKTVDQAPTLCA RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHRGRCKDA GQSKCRLERAQALEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFPWFPRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRLVIKL IREGLEKGKAQCKEIQKMIQEV KREIFQEIESLKKKPPKIQKTLDI LLKMQNALESLSDRTEQAEEIN SELEDKVFKLTQSNKDKKTR KYEQSLQEVWSYVKRPNLRIIG VPEEEENTKSLENILGGIIEENFP SFARDLDIQIPEAQRRTTGKLIK RSLLRHIVFRLSKVKMKERILR AVRQKHQATVSQKNKAGGITL PDFKLYYKATVSQKNKAGGITL PDFKLYYK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDVKI*DI GVYSCTAQNSAGSISANATLTV LETPSFLRPLDRTVTGETAV LQCIAGGSPPKLNWTKDDSP VTERHFFAAGNQLLIIGDSDV SDAGKYTCEMSNTLGTGRNV RLSVIPTPTCDSPQMTVL/HLLD DDGWGHCGLYVIIAVVCCVVG TSLVWVVIYHTRRRNEDCSITN TDETNPADIPSYLSSQGTADR QDGYVSSESGSHHQFVTSSGAG FFLPQHDSSTCHIDNSSEADVE AATDLFLCPFLGSTGPYVFEGK CVWAQNPF
22624	52992	A	22752	1	2947	MSAPSLRARAAGLGLLLCAVL GRAGRSDSGRGELGQPSGVA AERPCPTTCRCLGDLDCSRKR LARLPEPLPSWVARLDLSHNRL SFIKASSMSHLQSLREVAGNRIV EILPEHLKEFQSLETLDLSSNNIS ELQTAFFPALQLKYLELNRNLIK NVDGLTFQGLGALKSLKMQRN GVTKLMDGAFWGLSNMEILQL DHNNLTEITKGWLYGLMLQE LHLSQNAINRISPDWFCQKL SEDLTFNHLRLDD
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEFKQE/RAD GMWWKQLVAGAVAGAVS/RT GTAPLDRLKVFMQIKRAILGQQ ETLMCRSASWLAPWLVPQPNH HLPYG
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGRGSREA PTEAARCRASPPPRAGAMRGSP GDAERRQRWGRLFEELDSNKD GRVDVHELRLQGLARLGGGNPD PGAQQGISSEGADPNGLDLE EFSRYLQEREQRLLLMFHSLDR NQDGHIDVSEIQSFRALGISIL LEQAEKNFAQA/VDRDGTMTID WQEWDRHLLHSLNVEDVLY FWKHSTVLDIGECLTVPDEFK QEKLTGMWWKQLAAGAVAG AVSRTGTVPLDRLKVMQVHA SKTNRLNILGGL*SMVLEGGIRS LWRGNGINVLKIAPESAIKFMA YEQIKRAIPGE*ETLPVLERFVA GSLAGATAQTIYPMEVKTRL TLRRTGQYKGLAGLRGGILER EGPRAFYRGYLPNVLGIIPIYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVRTRMQAQASIEGGPKL SMLGLLRHILSQEGMRGLYRGI APNFMKVIPAVSISYVVYENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGILVKDWHPRPLGGKHC QLLGAFCRCQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENEKQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHWPWDYCAVQQGRYHQLLL TKEEIEVQRSKKMCLLQAFLIC CQKSHFLGPGCTRSMVPASASG ESLKLLPLMVEDEGEPTEREVR KREGERERGRERERRRRRKRK RRRKRRRKRRRRRRRRRG*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQQGRYHQLLLTKEEIE VQRSKKMCLLQAFLICCQKSHF LPGCTRSMVPASASGESLKLL PLMVEDEGEPTEREQEEGGGE RERERERKKEKEKEKEKEKEEK EKEKEKEEERIRVPLPRVELRLT NIAAKQVGNTILDVAAPADHPS ESSCVYVRFVIKIPVAASFRFKK SYVTNNVESCEDGIHYFWKSH MHSENSCCKLPCPHLPAAER LGDALPELLPTMRRQRQCQNT GDGCDGRRQIGTRETEMHRDTS VAVKTQVDTSREGMGEVEPN CFWRDTHMASGVGAAFEELPH DGTCDCEPDEAPGAEEVCREC GFCYCRRHAEAHQRKFLSHHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQAACLWQRAGSS YSQHKDPHFTSFSTPRAVQNFD GFPCPFLRETTTLVLIPSVPLTDP GSFYRAWSFQCGPRSPRPLLGR TLSQKFLRLRLGRPRRPYMSTL TPF*STRIFERAFCQVMGAESGG RIEKTTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLLPLMVEDER EPVTERE/REKGRGREREGERE KEREGERERERERGERKGERER RRG*QPPFHNRFSEGQGRSFLCS RRPRVSRRGHTSRGPARKAAE RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNIPVNEN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCTINCGTR ISPSILHVGLPYPSTPNVKPERE GCGGGVSGNSKQPGALETAESE GKKEGRREEGSRPESASSLSLLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSIINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSQGPPEARPRIH LGAARGGDRTRGRPGRGRDW TRLGREMAAAA VSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QK\VIHSEYQKSKRISIFLSMQ DEIETEEIHKD\ICQRGK\ICFIPPV RFSRAITMDMVRIGSP\EGNFFN FPKTSWEYSLRLGEG\DVREEG LVPPGGL\EILILPCPQALGLDQ NHGQPRLG\RGQGA YL*CLS*K RLFCSHSGKLPPTPPGGWLFK EQICPPRSPVNENDMK\VDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREEREELQ WRRRRRRRRRRRRRRRRRQRQRA AAPAAPAGGIEAVNMA SASYHI SNLLEKMTSSDKDFR FMATND LMTLQKDSIKLDDDSERKVV KMILKLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKT VIGE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSVQLEALDIMAD MLSRQGGLLVNFHPSILTCLLP QLTSPRLAVRKRTIIA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHLRGTMAMESTA TA AVAAEL/VSADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MATESTATAAIAAELVSANKIE DVPAPSTSADKVERIENGVLGN TLDGVHVEEEEGEKTEDESLVE NNDSIDEEARKELEQVYDSM GEKEEAKKTEDKSFAPETDKE QDCMEKGGREDMDISESAEEP QEKVDLTGWLTEISEGAKGG GAPEGPNEAEVTSKGPEQVDP VEEEKSVSETDVQKECREKGG WEKHREVIVSIEEKPEVSEEQP VVILEKQGTAVEVAAESLDPTV KPVDVGGDEPEEK/GTVPGLSR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTEGTAT RNYRKDRRCKGVSDYWECS*T GSESYSGGELYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVPNCLFFSQALFRSLVRHL RGTMAESTATAA VAAELVSA DKIEDVPAP\STS\ADKVESLDV DSEAKKLLGLGQK\HLVMGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG\KSLLLELARME NGVLGNA\LEGVHVEEEEGEKT EDESLENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLG YAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I*KLCASC\GGVPVLP*PTGP VPGSPRPSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATR N*REDRRCKGVSA*W ECS*TGSESYS

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22643	53011	A	22771	11	2485	VSGVPNCLFFSQALFRSLVRHL RGTMMESTATAA VAADVVS ADKIEDVPAPSTSADKVESLDV DSEAKKLLGLGQKHLVMGGIP AAV\NAFQGAA\SL\GKKYGET ANE\CGEAFFFYG\KSLL ELARM ENGVLGNALEGVHVEEEEG\EK TEDESLVENNDN\IDEEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKEQDSEMEKGGREDM DISKSAEEPQEKVDLTLDWLTE TSEEAKGGAAPEGPNEAEVTS KPGQIEVPDAEEEEKSVSGTDVQ EECREKGGQEKQGEVIVSIEEK PKEVSEEQPVVTLEKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLEQLVGQEV PPAESPEVQTEAAEASAVEAG SEVSEKPGQEAPVLPKDGAVN GPSVVG DQTPIEPQTSIERLTET KDGSGLEEKVRAKLVP SQEETK LSVEESEAAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGEETEGSEEDDKENDKT EEMPND SVLENKSLQENEEEEEI GNLELA WDMLDLAKIIFKRQET KEAQLYAAQAHLKLGEVSVES ENYVQAVEEFQSCNLQEQYL EAHDRLLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELLP\EIREKIENAKE\SR\SG
22644	53012	A	22772	52	161	FQNPTGLY/CDTEYN\RLQKQQ TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPTGLY/CDTEYN\RLQKQQ TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KA WWNLLRKSEPKSCGS*GGL STSRERLVECSSPLGLGYCG**L CHLQEPHYGSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARAAVGAARGIHIHRC GLTKRPDARRRRVAGAQQREP AISLPGDRAAGARATRTRGPGP APKMPAIAVLAAAAAA\WCFL QVESRHLDALAGGAGPNHG\NF L\DNNDQ\WLSTVSQYDRDKY\W NRFRDEVEDDYFRNWNPNKPF DQAL\DPKDPCLKVKCSPHKV\ CVTQ\DYQTAL\CVSRKHLLPR QKEWGTWAQKHWWGLDL*ILV K\CKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG\PCPCSSQSLEPPKHK GRKGVPCTDKELRNLASRLKD WFGALHEDANRVIKPTSSNTAQ GRFDTSLPICKDSLGMFNLK DMNYDLLLDPSEINAIYLDKYE PCIKPLFNCSDFSFGDKPFLNNE WCLLPSONPGGLP/CAQNEMNR IQ\KLSKGKSLLGAFIPRCNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGAVSCEEEQETS GDFGSGGSVLLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDEVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVAAVSIELGAG GPVWRAAPRACSRQLLLRGFG LEGQWFGESCCRRGAS*EGSTR *PPRRQPWPEWVMSWVPPET REPARISPAPAKQN*PPPAPKSP AAPA\PQAAVAATPSPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEKKRRRIEELL AEKMAVDGGCGDTETWKDR\ WNHVKK\FLERSGPFTHPDFEP\ STESLQFLLDTCCK\VLVIGAGG\ LGCELLKNLALS\GFRQIHVID\ MDT\DVSN*IRQFLFRPKDIGR PKAEVAAEFLNDRV\PNCA\NVV PHF\NK\IQDFNDTFY\RQFH\IV CGTGTLS CARRWINGMLISL\LN YERMVS*DPSSIVPLID\GGTEGF \KENARVIL\PGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCI \EYVGMLQWPKEQPFGEV\PL DGDDP\EHQWIFQKSLERASQY NIRGVTYRLTQGVVKRIIPAVA STNAVIAAVCAT*/EVFKIATSA YIPL*IITWVFNDV\DGLYTYTFE GRKGK\ENCPAC\QLPQNISVF LHQAKLQ\EVLGIILTNSASLQN EILPAITATLGGEKIGTLYLQSV TS\EERNRANFFQTIERNWGLL DGPKTGRLLDVTP\QTVLFQTS ILLKKGKSPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQAYSSQSQ /HPAYHRITPTLTNFALRLYKEL AADAPGNIFFSPVSIS\TTLCLLC LGAQANNSALILEGLGFNL TET PEADIHQGFRLHLTLVLPSPKL ELKVGNSLFLDKRLKPRQHYFD SIKELYRAFAFSAHFTDSVTTGR QINDYL*RRTYWPGVDLPFRS/L ARDTFMVLA\NFILESKAKVKA TLSSRVDPKSRPVFLVDERTSF \QVPMMHQKEMHRFLYDQDLA CTVLQIE\YRGNALALLVLPDPG KMKQVEAALQPQTLRKWGQL LLPSLLDLHLPRFSISGTYNLEDI LSPNWFSPYTLNKITSLQSVG G*LNKSISKVSHKSMVDMNEK GDQRPGLLQASSPSPHL*/YTMS DPHAHFNRPFLLLLWEVTTQSL LFLGKVVPVWVWVTMVGQGE LSYLILDQTDRPEPACILGLLCG
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	

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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGGRNRYGL\ IGANGSGKSTFMKILGGDLEPT LGNGSLDPNER\IGKLRQ\DQFA FEEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVKEYGEMAGYSAEARAGEL LLG\VGIPVEQHYGPMSEVAPG WKLRVLLAQALFADPDILLDE PTNNLDIDTIRWLEQVLNENNS T\MIISHDRHFLNMVCTHMAD LDYGELRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEVKASSRQNPFIREFE QDKKLFRNALEVEGLTKGFDN GPLFKNLNLLLEVGEKLAVLGT NGVGKSTL\KTLVGNLQPDG TVK WSENARIGYYAQDHEYEF ENDLPVFEWMSQCKQ*GDDEQ AVRSIFGRLLFSQDVIKKPAKVL SAPFCKDSILEAIDAGIKLIITITE GIPTLDMMLTVKVKLDEAGVRMI GPNCPGVITPGECKIGIQPGHIH KPGTGELNITTGGIVKARDTQIA LNDKSKGDVRVDGQNSLLET NMYVGTSGTGTLTLTNNGTLN VEGGEVYLGVFEPVAVGTNLNIGA AHGEEAADAGFITNATKVEFG LGEGVFVFNHTNNSDAGYQVD MLITGDDKDGKVIHDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/ISEESW GARAPIFLLR/MMEDQGLYSIR MGGARGLPKSLAL*GAGRGF YSGERTWTLSPSGNCAP\YQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGVYWAEFRGG AYSLRKAAMPHLAPEAVTLCSE GPLGPRGHWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRHLRRGAFIKAGRHA G/PSLPVCLQATA\H*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCT GDQRK\RRKFL\ETVELQISLKN YDPQEGQSAFSGHPSRL*\VPSP PLSSLVCVLGGPSKHL*RRLRP VGYPPTMDIEGA*KKLNQELKN LVKKAGPRKYDCVFWPQESLD SSKIPPNPSPGPGFK*RAGKVPFP CLTHNGKHGLAQSGIEVEVPTF/ LSFQMKKG VYVWAVAVWSRE R*QTNELVYNIHLACQLSWVSL LKEKNWQ\NVPGPYIHKSTMGQ SPSSHILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTSLRTSTWRLAQDQT QDTQLITVDEKLDITTLTGVP EHIKTRKVRIFVPARNMQSGVN NTKKWKMEFDTRERWENPLM GWASTWSYDIEERKVPKPKSK SYGANFSWNKRTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVSMSV\VL RQT LWRRRAVAVAAL\SVSRVPT/R RSLRTSTWRLAH\DTQDTQLI TS**KIGISLTFNWPFP EHIKNL EKSGIFVPCSPITCQSGVNNTK\ KWK\MEFDT\RRER\WEN\PLMG\ WASTGLIPLS\NMVLNLPVLKE DAVS\FAEK\NGWELWTL EERK\ VPKPKSQVFMGANFS\WNKRTR VSTKIGLALTISPA
22668	53036	A	22796	1	798	MNKVNPTQQDKEDHPELIITSIG DKRQLTLEAASGVCHRGQTQR VKEESKKFLISMSFRGGKPVHK VVERACVCTCLHHTSVPATHN TQRRHTTPTTRKNGRKRGRKK EREKRKDREHNTGRRTKRKKT RNIGGQRTQQKQKQSEDKARR EPGGGRKQGRGREDGTRQRRG GRTRNREEGAQRGRNGR/RGEG RRT EETHMA*APDITATQQTE QQGHGTRQRDITLRRHTAEDA QPSEHASADQAHTKKTE*SVSR TNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPITCVQNGRLRYHNRDVWKPE PCRICVCDNGKVLCDVICDET KNCPGAEVPEGECCPVC PDGSR VTHRPKKPPGVEGPKGDTGPPR PKGTPGPPGRDGIPGQPGLPGP PGPPGPPGPPGLGGKLLLPKLSY GYDEKSTGGISVPGPMGSPGPR GLPGPPGAPVSIQDVFIKLLGLW SFGGKTGMRAGEMLRDLLGPQ GFQGGPPGEPGEPGASGPMGPRG PPGPPGKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHDVIKK VKKKGWVKLVVDQLSMRML SSCKMTDIMTEGIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPPTAKYRAAHVFFTDSC PDALFNLVKSRAAKVIKTLTEI NIAFLPYESQVYSLDSADSFQSF YSPHKAQMKNPILERLAEQIAT LCATLKEYPA\VR YRGEYKDN ALLAQLIQDKLDAYKADDPTM GEGPDKARSQLLILDRGDFPSSP VLP*I*LFQMSY*SCLPIENDV\ YKYETSGIGGGHGVKGGASGT EDDDLWIALR\HKHIAEV\SQE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRIIL LYIFLKN GITEENLNKLIQHAQI PPEDSEIITNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPHDKDIMEDTIEDKLDNK\HY P\YISTRSSASFSTTAV\SARYGH WP*GTRPPGEYRSGP/RVFIIFHP LGGVSLNEMRCALRR*PRANG KWGGA**GSTHILQPHRNLP GH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGEKIMHDVML NDLNMGEWKALLVDQLSMRM LSYCCLMTDIMTEGITEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFFTD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRVRGEYKD NALLAQLIQDKLDAYKADDPT MGEGPDKARSQLLILDRGFDPS SPVLHELTFQAMSYDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTCMKHYQGTVDKL\CR VEQDLAMG\TDAEG\EK\KDP MRAIVPILLDANVQTY*QIRIILL YIFLKNNGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIIKDIMEDTIEDKLDTKHYPYI STRSSASFSTTAVSARYGHWK NKAPGEYRSGPRLIIFILGGVSL NEMRCAYEVTQANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLFR VLGWTCSLGIYLGWRVS*NFG RGTKALKVLSTIS/E*RNHHCHP *NNIFVY

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22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSQDPAASLSLHLSLPP APGAGCARWRRRGPPQAAMAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAAGVSLLEPPL QLYWTWLLQWIPLWMA PNSIT LLGLAVNVVTTLV LISYCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFFSRSFYLGCLVFYCAH WQTYVS\GMLRFGKVDVTEIQI AL\VIVFVL\SAFG\GATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CS\NYSHVILHGGVGKNGSTIA GTSVLSPGTPH/MGLIIL\AIMIY *KVRQLMVF*K SIPCL*YPQCLG CVFAKVSQKISGSSHDQK
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRRERPERCSS SSGGSSSGDEDGLELDGAPGR GKRAAQPVAAGKVGGAAVVV AEPEHTKKHVKLETLLITTEGK LWSWGRNEKAQLGHGDTKRV EAPRLTEGLSHEVIVCTCARNH TLALTETGVSFAFGENKMGQL GLGN*TDVPSVPQIMYNSLPIT KMA/CGYGWLGYTEQKDEM V PRLVKLFD FPGHGASQIYAGYT CSFAVSEVGG LFFWGATNTSHE STMYPKAVQDLCSWRIWSLAC GKSSIIVAADESTISWGSPSTFG ELGYRDHKPKSSTA AQEVKTL HGIFSEPVAMGYSHSLVIARDE SETEKEKIKKLPEYSPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPL ADEGGECGETLFVWRSQKLEG SKCKGQLLIFGATNWDLIGRKE VPKQQAAYRNLGQNLWGPHR YGCLAGVRVRTVVSGSCAAHS LLITTEGKLWSWGRNEKGQLG HGDTRVEAPRLIEGLSHEVIVS AACGRNHTLALTETGSVFAFGE NKMQLGLGNQTDVPSPAQI MYNGQPITKMACGAEFMIMG LQRKPLFLWGALNMGQLGTQL RMGKFHSPGAQRIEYDCELVPR RVAIFIEKTKDGQILPVPNVVVR DVACGANHTLVLDSDQKRVFSW GFGGYGRLGHAEQKDEMVPRL VKLDFDPGRGASQI/SCWL/HTC SLCCQ*NGWSVFLGGHQHLP*I YHVPQKQCRTSAAGESGTLAC GKSSIIVAADESTISWGPSPTFG ELGYGDHKPKSSTAQEVKTL DGIFSEQVAMGYSHSLVIARDE SETEKEKIKKLPEYNPRTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECCKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAAATLAVGTMCGVYGSAL CNAQRWLNFGQDTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEG V ARCNESQGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECCKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAAATLAVGTMCGVYGSAL CNAQRWLNFGQDTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEG V ARCNESQGDDVATCS

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22685	53053	A	22813	198	380	ASSEDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAAS*DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRATRPPS RRTR*SKATYPTPSNDQTRTIRT SRERASMPRSAEPKRPTIPRLHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRTAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPRYRLF FKMLRCHRSIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPPA AGTCR*RPAGHCPAGAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAGSPACA GEGRLQR/HSPNPLYFNWKKQR FAAKPHFRPQSSLNPQQWLLA GLLQEESLGTDTAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRS IVKVSHPA VIGLKSFLKKPD QLRKLFIIGLSFETTTDESLRSHF EQ\WGTLTDCVVMRDPNTKRS RG\FGFVTYATVEEVDAAMNA RPHKVD\GRV\VEPKRAVSREDS QRPGA\HLTV\KKIFVGGIKEDT EEHHLRDYFEEIILNSMGKLEV VEIH*LDR\GQWPRKRGFAFVT FDGHDSVDKIVIQKYHTVNG\H NCEVRKALSKQEMASASS\SQR G\RVGSGNFWCGRT\NGFGGND NFG\RGGNFWSVVAFFG\SRG GVWIWVA VGDGYNGFG\NDGS HFG\GGGSY\NDFGDFH\NQSSK FWTP*RGGNLGGQKLWPPMGG GG\QYFAKPTKPKVAYGRFPAA ASSYGKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHGSCHHNRP GGPGGKSGFMGQALGPG/GCV QPRDLVLCVSATPAMAERGQC GAQAVASEGGSPRPWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKGNVRS SP/PQSLYWGTSAGAVRRGPPSS RNQNGRSTDSLHCMPGKDTQP NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

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22693	53061	A	22821	3	401	VGVCEKRGAPG\PPLAPGPARG PVAAAVPP/GPGASRAP*DAA AAAGGRGPPEQ*T*KAWGLHP GTGSL/RGHPAPM*PLLRAFPRS PLHPLPPPPLPRRAA\SNPGTS KCRTAAGTRQWGGRQSQLQRC QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGPGGKSGFVGKVQGPHAVCS LGTWCLVSQPLHP\G*KGPMYS SG\VASEGGSPKPWQLPRGVEP MGAQKSRTEVWEPLPRFQKIY GNTWMPRIPMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANFSARNLSRP*DAP GRVQDPRPQAPQL\PPGLGAPSR VRRPPRRPVDRTLPGGPRPPA AAA\GPTGGRGS\PRAGGTAAA TGPRAGPGARGAAGSAPFLTDP NM\GRPPPPATTTPGAATAPGP REEAPGKFRVSPGPSGAGGPP TRASPTPTAAGGGGGDSEGE GP ILLVADAG\PDSARSPPGLPGCV LSAAPRSRRDPDAVGGLAASA AARRLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAGQPLTIPGRVLIGEVLT KL\CRKKPKARQFFLRNDIVV* GNIVIQKKKYIKQHIIPLENVTID SIKDEGDLRNGWVIKTPTKSFA VYAATATEKSEWMNHINKCVT DLLSKSGKTPSNEHA AVWVPD SEATVCMRCQKAKFTPVNRRH HCRKCGFVVCGPCSEKRFLPS QSSKPVRICDFCYDLLSAGDMA TCQPARSDSYSQSLKSPLNDMS DDDDDDDMQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTDTGKT PTRRPVLVDHNRLPEGSRGRL AVAVAGDHPAAVQVTMTLVN DTGFDPVFSGSIAESWGQHSGT PSYC*DWEAATMLRAFPLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDTPNILYFMQF
22700	53068	A	22828	2	91	

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22701	53069	A	22829	1	1188	MGAEPSLLTSLGTLWSGERFQC MRAKIWERSRKGRFSTDVISP TKDSFAGPFQPISTLVQHQRİY GLKVCVLPDPCKIRILKPNPQC VGKWEEEVAENEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNHRKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEAFIRPVAKAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\PAPP\KAEAKAKGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLSRRPGRPLR\RRQP \KYPSGRAAPRRNKLD\HYAHK FPL\TESA\MKKIEDNNTL\VF\I VELLKATTKNQIKQGC*RSLYD IDVGQGSTPWISAWMGEKKGI CSD LAPDLPIAFGMFANKIWGFI
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWGQA VSQQSCALEPRTGEEGGKGIQG PASGLFPTGEEISVVPNRWLDA SLSPVILGVQG\GSQCLSCGVGQ EPTLTLEVRLGASSLGTQPQML SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCGPGFCPS LTLPSFCRKPVTIME\LYLGAKE S\KSFTFYRRDMG\LT\SSFESAA\ YPGWFLCTEPE\ADQPVRLTQL PENGGWNAIPITDFYFQQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRSVRWSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22706	53074	A	22834	1	1889	ACRRRAGTWTPPRPRGSGSRA MAGNCGARGALSAHTLLFDLP PALLGELCAVLDSCDGALGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTIGD LLQVLQEMGHRRAIHLITNYGA VLSPSEKSYQEGGFPNLFKETA NVTVDNVLIPHEHNEKGVLLKSS ISFQNIIE\GTRNFHKDFLIGERG E/IFGGYQEGKIQTLYAVKLFK QEKKMQCKKHWKRFLSELEV LLFHHPNILELAAYFTET\EKFC LIYPYMRNGTLFDRQLQCVGDT APLPWHIRIGILIGISKTIHYLHN VQPCSVICGSISSANILL\DDQFH PKLTDFSMAHFRSP\LEHQSCCI NMPSS\SRKHLWY\MPEEYIRQ GKLSIKTDVYSFGIVIMEVLTGC RVVLDDPKHIQLRDLRELMEK RGLDSCLSFLDKKVPPCRNF AKLFCLAGRCAATRAKL RPSM DE\ V*RALESTQASLYF\AGDPP TSLKALRGPSPLF\LEKVT\SIPV \EDDEAKPNNNLLPS**KALRMK RWPQK\TPF\ECSQP\EVWFLSLE QKAREARENEEACNMPSSS\CE ESWFPKYIVPS\QDLRPL*GK*K ILSSQAISGHSCARTKPVESSCSS KFSWDEYEQYKKE

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22707	53075	A	22835	1	1560	RWERGGKRFRAADPMSALRRS GYGSPDGP SYGRYYGPGGGDV PVHPPPLYPLRPEPPQPISWR VRGGGPAETTLGEGGGGDDG YYPSGGAWPEPGRAGGSHQEQ PPYPSYNSNYWNSTARSRAPYP STYPVRPE\LQGQSLNSYTNGA YGPTYPPGPGANTASYSGAYY APGYTQTSYSTEV PSTYRSSGN SPTPVSRGIYPQQDCQTEAPPLR GQVPGYPPSQNPGMTLPHY PY GDGNRSVPQSGPTVRPQEDAW ASPGAYGMGGRYPWPSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQQPKDSSYPYSQSDQSM NRHNFP/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHP\NNQDQSSSLPEE CVPSDESTPPSIKKIHHVLEKVQ YLEQEVEEFVGKKTDKAYWLL EEMLTKELELDSVETGGQDSV RQARKEAVCKIQAIKLEKKR IMKGFITKWKPVNTLTKEHLIW LITLFLKCLLMTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVGKVTENGGSPPQGI KSPSKPPGPNRIG*RNQVSVHT
22709	53077	A	22837	459	5520	RQVRPAGLEGSDLSSINTMMSA VMSVGKVTENGGSPPQGIKSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKICTTQHQLTMHIRQHN TDTGGADHSCSICGKSLSSASSL DRHMLVHSGERPYKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPGRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPCVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFRTHRGLLRHNL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWPGQSPRPVST*GRRNP PPKRRSVSAES*RHWQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSSQATP PGL*SWNQPSLPARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDGIKHKGKENP/PKGPPPP THPQTTPRPADAPLVATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	1	2355	MVGSRRISGVIPLPFTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPPTSASCHCQQVPC AGLEVALPGNRTICWLSLWPS WQLDEDAQSPALESSSIRQFPT APRSGYPGTLCPSFLFGPRPRTC EYHSPVLCAPSSRASPSATT STRTLWGPAGSHPFVHNTR LSPDLCPGKIVLRALKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDARSAFWPLRDNGGSPSFV PRPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSYSSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSAPAAAAAAPP PSTLNPTSGSLLNIEWMEAPHIS WPQPQLQHVPRGQ/NVRYNQR SQTSTRS/CPQTKCQLQLPQLY GRPPGSKAEEGPASSHCQLALS SSNTVSEDGPQAVSSGHCENK AGTAPGQTLAPRGGSRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	1	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGPLQTDLHTQR/LGYRV TVEDLDREKEAAFORINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPAVSKAPSMDAQQERHK SQDCLGLLAPLAPAAEVPSTAP MSGKKHRPPGPLFSSSDPLPATS SHSQDSAQVTSLIPAPFPAASM DAGMRRTSPGTSAPAAAAAPP STLNPTLGSLLEWIEALHISGPQ PQLQQVPRGQNQRSQTSRTSSC PKRK/CHLQLQLYGRPPGKA EEGPASSHCQLTSSSNTVSED GPQAVSSGHTHCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPLELGYR VTAEDLDREKEVAFQRIKSALQ VEDKAI

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22719	53087	A	22847	2	1762	YHSKPVLCA PSSRAS PSSATTLS TRTLWGPGAGSH PFGVHNTRL SPDLC PGKIVLRALKESGAGMP EQHKDPRVQENPDDQRTVPEV TGDARSAFWPLRDNGGPPSPFVP RPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSSYSSSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSAPAAAAAAP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVP RGQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG/PASSHCQLALS SSNTVSEDGPQAVSSGHRCEK AGTAPGQTLAPRGGS PRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSPFSPSPSSLCLWDLPV APTLWGPAGSHPFVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRASADIPPCPEVRNQI*PDIP DHLDELMHQPCKHLQLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGTPEQQNPDDQRTVPEV TGDARSTVKPLRDSGGLSPFVP RPGPLQTDLHAQSSEIRYNQTS QTSWTSSSTKRNAISSSYSSSTGG LLGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGGSPRSQGSR PRRRKIALPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMDAQQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSLIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPPST LNPTSGSLLNEWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLC SKLFEGFGF IFVGFFFFAYMGILQLLII

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCPCARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCPRPSSTTSGSAM T*RGPWRS PGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSYSSTGG LPGLKRRRG PASSHCQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTFIDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGGHXYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITR GSSRPSIREDENGRSQKPVHPEG DMTMNIKKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGRVFKDS DKFDANDPILKDQTQEWRGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTTPRR FSVILQDLCSILGDSCLQFHLHR VPQQVSAVLLRVSGASPSATT LSTRTLWPGGACSHPFVHNT RLSPDLCPGKIVLRALKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGSPSPF VPRPGPLQTDLHAQSSEIRYNH TSQTSWTSSNTKRNAISSYSST GGLPGLKQRRGPASSRCQLTSL YSKTVSEDRPQAVSSGHTRCEK GADTSPGQTIAPTGGSPRSQDS RPRRRKIPLLRRRGEPLMLPPP LELGYRVTAEDLHLEKETAFQR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDSAQVTSIPA PFTAASSDAGMRRTRPGTSAPA AAAAAPPSTLNPTSGSLLN\EW MEAPHISWPQPQLQHVSRRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEG\PASSH CQLAHSSSNTVSEDGPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGPTGPPSI
22724	53092	A	22852	1	3392	MDKYLLHDPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGYPGTLCPSFLFGPRP RTCEYHSPKPVLCAPSSRASPSA TTLSTRTLWPGGAGSHPFVHNT TRLSPDLCPGKIVLRALKESGA GMPEQDKDPRVQENPDDQRTV PEVTGDARSAFWPLRDNGGSPSP FVPRPGPLQTDLHAQSSEIRYN HTSQTSWTSSST
22725	53093	A	22853	40	409	WKMRIHETRYNVLVSRGVGCH RLFFLNGVFEHLGRAVQRRKV DTEHQLLRAAVPANQEHRGLT QSQHVDGHSLLLLTLNPSFLCQI QEPSLGSGSGALSGNVRIRPPA QEAPPEPSVLTLLW
22726	53094	A	22857	3	220	

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22727	53095	A	22858	1	356	MAGPVKDREAFQRLNFVYQVS LRQGPBGDGGARRPRVTAPLPQ AAHCVLAQDPENQALARFYLAH TERTIAKRLVLRDPSVKEELL CRGCSSLLVPGLTCTPAPRDRC RGQRWTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPAPRRKVGLNLAPVTEPR DQPWAMIIDVFISRYSGSRGQPR QTLTKGELKVLMEKELPG\FL QSGKDKDAVDKLLKDPGRPM GDAQGGTFSEVHPCSVAAITSA CHK\YFEKAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPSLPGPLCPSIM PA/PPYASPPMMPMMGPPFRGM MPVGLAPGPMMLLQYNTCS
22731	53099	A	22862	7	522	SVWWNSNGLQSNMPKFYCDY CDTYLTHDPSVRKTHCSGRK HKENVKDYYQKWMEEQASLI DKTTAAFQQGKIPPTPFSAPPPA GAMIPPPSLPGPPRPGMMPAP HMGGPPMMPMMGPPPPGMMP VGPAPGMRPPMGGHMPMMPG PPMMRPPARPMMPVTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTEKPYKCNECV KAFHRSTCLHAHKRTHTEKP YECNQ*GKAFNSSHSFQIHRT HTGEKPYECKECGKAFCGPSSV RRHERTHSTKKPYECKHCGKA LSYLTSTFHNHLMHTGEISHTC KICGKAFYSPSV\IQTHE*THT
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFGLGIESRPPLLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVML ETFRNLTSIGKKWSDQNIEY QNPRRSFRSLIEKKVNEIKDDSH CGETFTQVPDDRNLNFQEKKASP EVKSCDSFVCAEVGIGNSSFN SIRGDTGHKAYEYQEYGP KCQPKNKKAFRYRPSIRTQER DHTGEKPYACEKCGKTFISHSG IRRHMVMHSGDGPYKCKFCGK AVHCLRLYLHERHTHTGEKPYE CKQCGKSFTYSATHRIHERHT GEKPYECQCGKAFHSSSSFQA HKRTHHTGGKPYECKQCGKSFS WCHSFQIHERHTHTGEKPCECSK CNKAFRSYRSYLHRKRSHTGEK PYQCKEKRKAFTYPSSLRRHER THSAKKPYE/CSFQYHERHTHTG EKPYECKQCGKAFRCAPHLRR HGRTH/S/AEKPYECKEKGKAFR SASHLQIHERHTHTIRHISGERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTHTGEKPYECKQCGKA FRSASILQMHAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTHTG EKPYECKEKGKAFRSANLRIH ERTQTHVRMHVSVERPYKCKIC GKGFYSKSFQIHEKSYTGKGP YECGLQLPRTAESVDSEKLQG PGKQETHVQLLSLYCLRRVLD
22736	53104	A	22867	1	391	MKEHIERNPVTIKNVVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRNTIY TRIH/GEKSCDYKKCGKAFNQ YSSLRRHESHTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRNTI YTRIHINKQEYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAGLPLG AWRLYLLRHFRKQTELRSSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLLQVLRISWPWC NKLKTMEEKVKRRSPKSFSA HCTQVVNVQKKMSIPVSK\STG FSNPASQVNFTSRPKVKKEVM K\EKTKPQGLEEGQRHSSQLPIQ HSFLTVDVSRCSRKMERGLLSL\ LNDFHSWKTFKHFGN\ECSE\EQ MEHVSSELQEKLARLNLELYG ELEELPEDKRKTASDSNLDRL SDLEELNSSIQKLHLADAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVRIRIWPLKLP RLAVREGLRCGTLRDVMPPSM SGVVVGPPGPAPPGPCGDTTSGP APGTFGQASAPVSPRRGHGEY LCSSPTPVFFPGLWQPPRAGFTA PERSWSCRGPRWQLRAAWAGR LSSSPVSALLTFKVHILSTGLLFG PLGGWKILSSLPEIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGQQPSTRISGS GCVHPVRVWPFSIEPAIGTLNV GESMQLEVEFEPQSVGDHSGRL IVCYDTGEKVFSLYGAAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRSNIIAHFLWKVFATQQEE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPSEWACDDLI KEEKDETFEEECITDPLLREH LSVLSRTFANQRRLVQGDskLF FNNVFTVEPLGWSERKEMAEIR DVQKKDTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPEQRNRTKKEY/SLRI PFGLPGDRMCFFTHRND/PTG NEVTPPSLAADLGQQFGGDAT DRQPWMIHQMLIHQGSEQLCF VEHGINMLRLGEILHLAATRHE AHFLAFRQFFNHQRSCFALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPLQQQVDSQHNGDNNSESA P*QRRADSIHRSSLHIKKRPPSE DVSRCFLCIDLAFRQGFTFNKK GIRVRIPFGLPGDRMCFFTHR DDRPAKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSFISETDMCLLC PFIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFFGEQGLDSS SSLDLPSSPNPAPTLCPCVQPPR GPVSVSVPVSVVMGSRAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGPSPGAPGLPSPSVRAPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRRKQRRKQPWSSPARGA *PGPRRPSLRAAGTRRRRKRRA SWTRCSNTCPGRCRTCSRSNQA SCPSLLHLLLLLFGSFFSFY
22748	53116	A	22879	1	1339	MPSYKGCGETQRHATNGTAAP PRRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRSARSSSHC WCTSWEDPPEATAGEEKRHPK SPAVCCGEGTVLTASTVTWRA EPARGEIWARLCPRDRPGSRAA AVIWERPCCDRLIADRTGPPNSS EPHCRAATIPLTWPLPEGQTLT LKALAKMAAPALLLLALLLPV GAWPGLPRRPCVHCCRPAPW/L WTLCPEGKEGAGVRGRAGRS KEGAA\GCPGPAGPQSARRGSV GPPGAACRRAYAAFSVGRREG LHSSDHFQAVPFDTELVNLDGA FDLAAGRFLCTVPGVYFLSLNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLLL\ RRATPVWSVPEELPAVLPGQDE LGSLQLHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRDTHGLR QHASHGCPVGPLHVP
22749	53117	A	22880	532	783	VGSTRGIVEGLIFILGEGGECYY PRSLFTVANFTVGKRVKTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGELQTTSQGNKRGYKQME EHSMLMG\GRINIMKMAILPKVI YRFTIPIKLPMTFFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTLQGYSNQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQSSSTP KDHSASPATEQSWMGNDFDEL TELGFRKSVMTNFSQLKEDVRT HHKEAKNLEKRLDKWLTRINSI EETLNDLMELKTMARELRDTC TSFSSRFQVEEGEIQTITREYY EHL YANKLENLEEMDKFLDTY TLPRLNQEEVESLNRPTGSEIE AIINSLPTKKIPGPDFRTA*RRP* MT*WS*KPWHENYVTHAQASV ADSIKWKKGKYK\HHQRIL*TP LRK*TRKSRRNG*IPGHIHSPKT KPGRS*IPE*TNNRF*N*GNN**P TNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRTLKKDHSPD**RRKL RKIK*MQ*KMIKGISQSRSHRNT NYHQRTL*TPLHK*TGKSRRNG *IPGHIHPPKSKPGRSQIPEYTN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRG
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNNRL*N*GSS**PTNQK KPRTRETD SRILPEVQRGAGTIP SETIPNNRKRGTTP
22754	53122	A	22885	162	539	TRKSRRNG*IPGHIHPSKTKPGR S*IPEETNNKF*N*GSN**PTNQK KPRTRQVHSRILPEPISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIIGSSGQGNQARERNKGYSNR KRGSIQVSVCR
22755	53123	A	22886	329	459	NDDTFRKPHRLSPKSP*AADKQ LQQSLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGGSPSQGIIDKTLISLG QST*GKGQLWVQLQRT*AFLPA GSEESSGSPSTA\PNSAKGQTPS SSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSRERNTNYHQRT Q*TPLHK*TRKSRRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNKLGN DGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTY\VGPKFLRNTRFAKKHNK KGLKKMQANN\AKAMSARAE AIKALVKPKVKPKIPKGC/RR KLRFDFA\IAHPKLWGRRCFVA RFCQGASGCSGPKGKAKVPKA KVKVS/PKAKAKAKAKDQTKA QAAAPALV\PAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNRNEDACRY/GS/AIG VLAFLASAFFLVVDA\YFPQISN ATDRKYL\VIGDLLFSG\VLASLA YQRYKAGVDDFIQNYVDPTPD PNTAYASYPGASVDNYQQPPFT QNAETTEGYQPPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGGSGDGDMEGAYGAAGA GGSFNLRRFLTQPQV\VARAVV L\VFALIVFSCIYGEYSNAHES KQMYCVFNRNEDACRYGSA\IG VLAFLA\SA\FFLVVDA\YFPQISN ATDRKYL\VIGDLLF\SALWTF WFR/VGFCFLTQWAVTK\PKT VLVGADSVRAAITFSFISFSWG VLASLG\YQRYKAGVDDFIQNY VDPTPDNTAYASYPGASVDN YQQPPF\TQNAETTEGYQPPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKTNC RNPRLGA/CRGQFCGPCLQNR YGEEVRDALLDPNWHCP\HCR GICNCSFCRQRDGRCATGVLVY LAKYHGFGNVHAYLKSLEKQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSVPKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDLFEAN DLFESRNMTQNRIL/P/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHIYNTKLGAHKCDNSSMSLH MGDTQSANHSVQGGFGLGQIY YPKYCPQ/GPAASGAPLDAGNC PGPGEAPEDPPCSQEEATTEAPE HAGSLHHRPVVWVGIFLYFRL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGK WNPQA LWRTAWQLLT/DTKHTLGKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKRPRCPSVDKWK NKPWCIIHTGLLSSTVPPGEPGC PIPELSGLLMGLQTTSSRCSVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHIMEHLEGVINKPRGRRCR PQELQLHYLQKCMDYDGNLL DGFRTLPPQSTHVHKEEGSEQ APLMSEDELINIIDGVLRRDDK NNDGYIDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLLPQLPELFETSKQL LDDVEVVTEPAGSRIVQKKVFK GLDLLEKAAEMLSQL/DLVAEL ELPKTKNSAE\NHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHRLSAIKSAVETGQADDERVR EYYLLHLQSLEEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDDEQTLYRVREWDDWKGI HPRDYGSQQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAEELPKTKNSAE\NHTANFS MAYPSLIAMASQRQAKRERHK QKELEHRLSAIKSAVETGQADD ERVREYLLHLQSLEEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIKATPEEFRKAAQQQEG QEEKEEEDDEQTLYRVREWDD WKGIHPRDYGSQQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHDELQLPRLPEL F\ETGRQLLDEVEVA\TDPAGFR IVQEK\VFKG\LDLLE\RAAEML SQSTLFGRECRFWKDLSPTHLI TFWGP\AFQGA\PLKQVNPSKR LRHILQVAREHF\NYLTQCHC YHVGQSFEL\PKT\MNNSAENH TANSSMAYPMLGAM\ASQRQA KIQRKQKKELEHRLSAMKSA VESGQADDERVREYYLLHLQR W\VDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPAKPFILT RNMAQAKVFGAGYPSLP/TLW TVSDWYEQHRKYGSITGFRGIA KSAPEGISGKAAQQQEEQEEKE EEDDEPNNFHRRAREWDDWKD TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNCSSLQSKQMCNQLPP GSTRDGSWKFRQDPRLGKNA/C DCDSCIASEFGVRGYPTIKLLKG DLAYNYRGPRTKDDIIEFAHRV SGALIRPLPSQQMFHEMQKRHR VFFVYVGGESPLKYVTLKEMP AVLVFKDETYFVYDEYEDGDL SSWINRERFQNYLAMDGFLLYE LGDTDLNASSLRERKLILPEDIP LYVGKLVALAVIDEKNTSVEHT SELTVPVTVVLTNSNQYFLLD RQIKNVEDMVQFINNILDGTVE AQGGDSILQRLKRIVFDAKSTIV SIFKSSPLMGCFLFGLPLGVISIM CYGIYTADTDGGYIEERYEVSK SENENQEIEESKEQQEPSSGGS VVPTVQEPKDVLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY LALVSVLPFQLGRGRTAPAKKG GEK/RKGHSAINEVVIQEYTINI HKRIHGVRFKKRAPRALREIPK FAIKEVETLSVRIDSRFNKALCA KGIRNVPIRIRVQLSRKRNEDE DSPNKRYTLVTYVPVSTFKNVQ TVHVHEN
22778	53146	A	22909	106	491	IGKGTNELMYGEK/RKGHSAIN EVVIQEYTINIIHKRIHGVRFKKR APRALREIPKFAIKEVETLSVRI DSRFNKAALCAKGIRNVPIRIRV QLSRKRNEDEDSPNKRYTLVTY VPVSTFKNVQTVHVHEN
22779	53147	A	22910	1	321	

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22780	53148	A	22911	313	402	R*GGEKKKGRSAINEVVTREY TINIHKRIHGVGFKKRAPRALKEI RKFAMKEMGTPDVRIDTRLNK AVWAKGIRNVYPYRVRVLSRKR NEDEDSPNKLYTLVTYVPVTTF KNLQTVNVN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFEFLHTEMVAEL WAHDPDPGPGVSAGLRGEEAG ATKGQKMSLSVLEGMGFRVGQ ALGERLPRETLAFREELDVLF LCKDLWVAVFQKQMDSLRTN HQGTYYVLQDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPWEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGPT GNRTVQLTWQPLPEPLELWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPLELRP RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPIILHAHTLNPAVW LA WAVEGEGSLTLNIWICPWQI EPLRHLAYTPGSDATSLTVPTR VISPLCVDSWLFTDPLMKTHAP ERTFLSFPAAAKRQAHLCLVAS NCDKPMYVKLVKAHCAEHQIN LIKGDDNKKLGEWEGPCTIDRE GKPCVVGCSCAVVKDY/GKE SQAQDVIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLARGIREAAK ALDKYVYQSQYCGFLQPEQNC HPREEGMEFMVLAQKF*MASV LPET*EK/RQAHLCLVLANCDEP MYVKLVEALCAEHQINLIKVD DNKKLGEWVGLACKIDREGKPR KVVGCSVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPLPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSSS RSPSSGRVNLHPPQTPSSH*SHL SSRSCCSAPLLTYHSSSLLLVCS VPFPFFPGFPGENPLFVLSGSAP
22799	53167	A	22930	1	1011	MCLRVI FTIGAVSVILSFLSLFFII LDQLQLVIPQSSLSSSSNLEDPY SESYAAARRPDSASTEPPAG KSSAEYRAHFLAVSTEAERIRA DLVLRARPLGPAHPTLWPTPP AGPFCRMVAHNQVAADNAVS TAAEPRRRPEP/SPSSSSSPAAT ARPRPCPAVPAPAGDTHFRTF RSHADYRRITRASALLDA\LG YWGPLSVHGAHEPLRAEPVGT FPVRDS\RQRNCFALSVKMAS GPTSIRVHFQAGRFHLDG\SRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRPLQELCRQRI RPP VG\REN\LARIPLNPVLRDY\LSS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPVLP LGAPP SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKVI PLGPPPTACPALS
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGRLP RCGLRSTITP KPIPGGHRKKPLLGA\GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPPSRQPFAPTDETRCG DDRISFCNYV

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22804	53172	A	22935	1928	5312	CLQQGPGGNQHCSHREEAPAV AACQEPGHSPEVSLPLGAPP SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKDK QRELGDKMDLASY
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRQHPAAAPAVPVRCFTFC FTDIVIMPKRKSPENTEGKDGS KVTKEPTRRSARLSAKPAPPK PEPKPRKTSAKKEPGAKISRG KGKKEEKQEAGKEGTAPSENG ETKAEIHHISRSTVNVSTSRGTP PSTLSVKGQIETVRVKGTEN
22807	53175	A	22938	3	285	SSCPAREQLQRQRQHPAAAPAV PVRCFTFCFTDIVIMPKRKSPEN TEGKDGSKVTKEPTRRSARLS /AVFV*FKLSLQKPAPPKPEPKP RK TSA
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRALRVSSCSGR GSIQRRFYAVPVRCFTFCFTDIV IMPKRKSPENTEGIDGS\KVTKE PTRRSARLSAKPAPPNPEPQPR KTSAKKEPGAKISRGAKGKKE EKQEAGK\EGTAPAENDETAE EAQKTESVDNEGRMNCP
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLSRCAYVQQCNFANP VVSALCTCLVKPVVEKCTPYA VLLEALALRNVRQLEDLVIEAV YADVLRGSMQQRNQRLEVDYS IGRDIQRQDLIAIARTLQEWG/C HQHLLSLRSAASQRQQCGYHK LHDKQRLLRG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKVTGRNQEQLLLAKS A\KGAVLATLIHQVLE\APGVY VFGELLDMPNVRELAESDFAST FRLLTVFAYGTYADYLA EARN LPPLTEA\QKNKLSDTFSVV\TL AAKVKCIPYAVLLEALAL\RN\N RQLEDLVIEAVYADVLRGSLDQ RNKRL\EV\DYSIGRDIQRQDLS AIARTLQEWCVGCEVVLSGIEE QVSRANQHKEQQL\GLKHQIES EVANLKKTIKVTTAAA\AAATS QDPEQHLTELREPAPGVTNQRQ PSKKASKGKGLRGS AKIW\SKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFTGT FATVAPET AADLSLHRHLLSRTTSAWGTA CITVPIEPPTWPTWAVPIQWGG SATCIQEDKLRQGILYGYSQQV NQAMDSGLRPVVDSVN AIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADAAHSALKQSD DLKPVFDQAFTKVVTTPADAL QPLIPAAQTFTQQLVMVGDYIA QQGTQECGKTF SRASYLVQHS RIHIGKKPYECKECGKAFSSGS YLVQHQRHTGEKPYECNKCG KAFTVYGQLIGHQS VHTGEKPF ECKECGKAFRLNSFLTEHQRVH TGEKPFKCKCKGKTFRYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSTPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPQFTRLPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNLKVYLGRAG SQAATGGPSPSLPNLHVKKLRP RKAEAWPGRRTGKVS GR/LA ALRAPYGESFARAAGPRDAPS/ QQPRPQPEHAPT LISLGSNFGG MVEESWCRMNPDSGRPKEVAP WPP PSTK
22821	53189	A	22952	1	591	MGP HWKDFKEIDVKKYIDALSI HTYTHTHTHTHADITDGDHGG GALLELEINSHLKVQFRELNITA AKETEDGGGGKAIIFVFPQLK SFQKIQVWLRRILPKPTRKSCT\ QNMHWPPRSRTLKAMRDSIPE DLVFPSEIMCMRIHV KLDGSRL IKAHLDKAQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEK AMFSSSAKIVKPNGEKPDEFES GISQALLELEMNSDLKAQLREL NITAAKEIEVGGGRKAIIFVPVP QLKSFQKIQVRLVRELEKKFSG KHVVFIHRRILPKPTRKSRTK NKQK\RP RSRTLTA VHDAIPEDL VFPSEIVGKRNR
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCSSLYQPGHLLPPHN PIQDHPLTAPSLTHLTRRAYFTD EKTGGQSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHSLSEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKD NIEEAL LLLLISESMLANKLLLEMERV QSPGVESGVDRQLSPYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETEKSRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASFPVPLHRC SAGSQPPGPVP EGLIRIYSMRFCPYSHRTRLVLK AKDIRHEVVNINLRNKPEWYY TKHPFG\HIPVLKTSKCQLIYES VIACEYLDDAYP\GRKLFPYDP YERV RQKMLLELFGKVPHLPK EFPGSVEDVGENAPNLKAALR\ QEF SNLEEILEYQNTTFFG GTCI SMIDYLPL/WPWFERL\ECMGY WNCVSHTPALRLWISAMKWD PTVCALLMDKEHF\QGFLNPYF QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDD ETDMAQLEACV CSIQLEELV*GASKLVPMGYGI RKLQIQCVVEDDKVGTDLLEEI TKFEEHVQSV DIAAFNKI

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22831	53199	A	22962	353	1071	APLWPRAERKFYKQMNGPVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQQAVSNL EAWLNIRREKSSPGH/RSTVP QTQHVSPMRQVERPSRPPYYD PGQEAEDNEDDDIDLNDKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRSIQLDGLVSGASKLA SVGYGIRKMQIQCVVEDDKVG TDLLEEEITKFEHVQSVDIAAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDIDLFGSDNEEVEDKQAGHS CGEER\LR\HYAGEEGPRKPAL/ VWPKSLPSLLDVK\PWDDDDGP WPSLEACVR\SIQLDGLVWGGF PSLVPVG\YGIRK\LQ\IQCV\ED DKVGTDFPWRREIT\KFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVRPRTPEGLRQLKMRT GWATPRRPAGLLMLLFWFFDL AEPsGRAVNDPLTIFHGNTGKC IKPGYGWIVADHCDEDEDKLW KWVPQHRLFHLHSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHSlyGAARYRLALKDGHGT AISNASDVWKKGGSEESLCDQP YHEIYTRDGNSYGRPCEFPFLID GTWHHDCILDEDHNGPWCATT LNYEYDRKWGICLKPEGCED NWEKNEQFGRCYQFNTQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSGISERFSG STSGNTATLTITGTQAMDEADY YCQAGRDFGGGTKLTVLGQPK AAPSVTLFPPSSEELQANKATL VCLISDFYPGAVTVAWKAHSN PVKAGVETTTPSKQSNKYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLLFLTLLTQGTGSWAQS ALTQPASVSGSPGQSITISCIGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGISSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSSTVVFGGGTSVTVLGQPKA APSVTLAFPPSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTTTPSKQSNNKYAAS S\YYLSLTPEQWKSHRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEGHP\DK\ICDQIS\DAVLDA HLQQDPDAKVA\CETVAKTGMI LL\AGEITSRAAV\DLPRKVVR SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDRNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNAKLAELRRN GTLPWLRPDSKTQVTQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEMARDALKEKVIKAVVPAKY LDEDTIYHLQPSG/RTFVIGGPQ GDAGLT\GRKII\VDTYGGWGA HGG\GAFSGKDYTEKVDRAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHTDTNMNGQLNGFH EALIEECTFLFTSKADGEGHPD KICDQISEAVLDAHLHQDPDAK VACETVAKTGMILLAGEITSRA AVDYQKVVREAVKHIGYDDSS KGFDYKTCNVLVALEQQSPDI AQQVHLDRNEEDIGAGDQGLM FGYATDETEECMPLTIVLAHKL NAKLAELRRNGTLPWLRPDSK TQVTVQYMQDRGAVLPVRVHTI VISVQHDEEVCLDEMRDALKE KVIKAVVPAKYLDEDTIYHLQP SG\RFVIGGPQGDAGLTGRIIIVD PYDGWGAHEEGAFSGKDYTKV \SRSAAYGARWVARSLVKGGL CRRVLVQVPGPPKKPDEDLYLE CEPDVLAALTQTLSFQVLMPSG PLPRTSVVPREQQMLPLKDSDL LTQPWYSGNCDRYAVESALLH LQKDGA YTVRPSSGPHGSQPFT LAVLLRGRVFNIPRRLDGGRH YALGREGRNREELFSSVAAMV QHFMWHPLPLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVMGILSFLPVL ATESDWADCKSPQPWGHMMLL WTAVLSLAPVAGTPAAPPKAV LKLEPQWINVLQEDSVTLTCRG THSPESDSIQWFHNGNLIPHTHTQ PSYRFKANNNDSGEYTCQTGQ TSLSDPVHLTVLSGQWRKAPG WTWEGQDG*NLLSGRGLQERG VACLLGSI AVSCLSTYQWLFLP
22849	53217	A	22981	32	1150	EKA VTA VLWAPARLQGV MGIL SFLPVLATESDWADCKSPQPW GHMMLLWTAVLFLAPVAGTPA APPKAVLKL\EPQW\INGGSRED SVTL\TCRGTHSPESDSIQWFH NG\NL\IPHTHTQPSLQVSRANN\N DSGE\YTCQTGQTSLSDPVHL\T VLSEWLVLQTPHLEFQEGET\IV LRCHS\WRDKP\LVKVTF\HNG KSKKFSRSDPNFSIPQANHSHSG DYH\CTG\NIG\YTLLFIPRLTIT VQAPSSSPMGIIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPT NPDEADKVGAE\NTITYFTSQW HPGWLWEEPDDQNRILVSIVLA LGIWRRNSEREDLVFPGLKFPL GEDTGRCCQFPKEKVFLPGVIL

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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGGSCLLLSIMAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRG\QILMPNTGHGSN /KKTkHMLPSGFRKFLVPSVKE LEVLMCNKSPCAEIAHSVSSK\N KTIVERAAQ/LAVRVTPNPARL RSEENE
22851	53219	A	22983	103	564	GIFRGIMAALRPLVKPKIVKKR TKKFIRHQSDRYVKIKRNWRKP RGIDNRVRRRFKGGQ\ILMPNIGY G\SNKKTk\HMLPKWLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSFQGTGKGLRGER SLPNWAFRVTPNPARLRSEENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPEARARPPDVQAAE EEKEMDLPDSASRVF/CGDASS NMGEHRMNVNAIILAQKNML D\RFECTNEMLLNFNNLSSARL ASRLSERFLHHTRTLVEMKRDL \DSIFRRIRTLKGKLARQHPEAF SHIPEASFLEEED\EDIPTQAPT TTIATSE\QSTG\SC\DTSPDTV\S PSLEPLASEDLSHVQALASPAI\ NGPQPDQIDEEMTGRIALPARC
22854	53222	A	22986	3	275	MRTVAEKVDAVRIVHIHSVINL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGWYHS HPHITVWPSHVKGKYHGVAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLESDA FLVCLNHALSTEKEEVMGLCIG ELNDDTRSDSKFAYTGTEMRT VAEKVDAVRIVHIHSVILRRSD KRKDRVEISPEQLSAASTEAE LAELTGRPMRVVGWYHSHPHI TVWPSHVDVRTQAMYQMMDQ GFVGLIFSCFIEDKNTKTGRVLY TCFQSIQAQKSSEYERIEPIHIV PHVTIGKVCLESVELPKILCP/ QEEQDAYRRIHSLTHLDSVTKI HNGSVFTKNLCSQMSAVSGPLL QWLEDRLQEQHLQEL\HQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQAVQA VHLESDAFLVCLNHALSTEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDAVRIVHIHS VILARRSDKRKDQVEISPGQLSA ASTEAEKLAELTGHPMRVVGW YHSHPHITVWPSHVDVRTQAM YQMMDQGFVGLIFSCFIEDKNT RAGRVLTYTCFQSIQAQKSSESL HGPQDFWSSSQHISIEGQKEEER YERIEPIHIVPHVTIGKACLESA VELPKILCQEEQDAYWRIHSLT HLDSVTKIHNGSVFTKNLCSQM SAVSGPLLQWLEDRLEQNQQH LQELQQEKEELMQELSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKNKKSSCISDNFFFLAI MVNLLQIVRDHW\VH\VLVPM GFVIGCYLDRKSDERLTAFRNK SMLFKSFPHRELQPSEEVTKW
22859	53227	A	22991	272	1241	FPGGAACDICWVKEENGSLMS MKMGWKAKSCLPVTVHPRCL TPYSARLSSTFPL*NSITTGP*QS PACKRPF*L TTC*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGVPVLPPLRPRKHY APGGLP\PPASLLEDDDDTFCTS QAMQPTAPTKLSPPALLPEKDS FSSALDEIEELCPTSTSTEATA ATDSVKGTSSEAGTQKLDGPQE SRADDSKLMDSLPGNFEITTST GFLTDLTLDDILFADIDTSMYDF DPCTSSSGTASKMAPVSADDLL KTLAPYSSQPVTSPQPFKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRSALYGRER LTGQPPSSPHNPAPWASCPAVI DPVPIYSSVAEAYDSGTEGIPTV PGLRHVESGSLRATAQRLPPER RV/QQRTTAPPPRQPPRRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVGPHALRW NRGEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVWTKRLQDAILVLV*EFRL HSPALRLCVMKQVGMSQGELE WGQFLKLSSRNKRKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNLPGLNHEETENLN KPITTSLSPLAGVSSTKKNTKNE LSIVLPFTGSILPVGFA TRPRGL ASSNPILLH MVAF LFANGTEEL PVPLMTPT RQKKVIPLIPLMVG LGVSASTIALGTGITGISTSVTTF RSLSNDFSASITDISQTL SVLQA LVDSSAAVVLQGQLRGLDLLT AEKGGLCIFLNEECFYLNQSG LVYDNIKKLDRAQKLANQAR QNLD SMLHGTGMKSDSDQKKS ENGVT LAPEDTL PFLKCYCSGH CPDDAINNTCITNGHCFAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHV RRTIECCRTNLCNQ YLQPTLPPV VIGPFDGSIRWL V LLISMAVCIIA\MISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKD LIDQSQSSGSGSGLPL LVQRTIAKQIQMVRQVGKG RY GEVWMGKWRGEKVAVKVFFT TEEASWFRETEIYQTVLMRHEN ILGFIAADIKGTGSWTQLYLITD YHENGSLYDFLKCATLDTRALL KLAYS AACGLCHLHTEIYGTQG KPAIAHRDLKSKNILIKKNGSCC IADLGLAVKFNSDTNEVDVPL NTRVGTK\RYMAPEVLDES LNK NHFQPYIMADIYSFGLIIWEMA RRCITGGIVEEYQLPYYNM VPS DPSYEDMREVVCVKRLRP IVSN
22869	53237	A	23001	68	636	GVTSNPKALLGALIAPAFASLPE GRGKRIQALNMFRPKNSWRLG LKYPSSSEKKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLFSGATATA/APLPLEGGP TG\RDSEHMQEAAGIRKSSLLTF LAWWF EWTS\QASAGPLIGKEA REVARRQEGAPP\QQSARRDRM PCRNFFWKTFSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL \LLDELVALVNKR DALVRDLDA QEKQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRRQLRER ARQLIAEARSQVVKMSELPPYG EMAAEKLKERSKASGEQNSKL VDLKLKKLLEVQPQVANSPSSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSDST VRKTQLQSFSQYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPYLYKKYGNQQGVAAIPD VPAAWEAEPSPVLPGRKPN ASQSLLVWCKEVTKNYRGVKI TNFTTSWRNGLSFCAILHHFRP DLIDYKSLNPQDIKENNKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAELSDLKREPEL QQPISGAVDFLSQDDSVFVND GVGESESEHQTPDDHLSPTAS PYCRRTKSDTEPQKSQQSSGRT SGDDPGICSNTDSTQAQVLLG KKRLLKAETLELSDLYVSDKK KDMSPPFICEETDEQKLQTLDIG SNLEKEKLENSRSLECRSDPESP IKKTSLSPTSKLGYSSRDLLA KKKHASLRQTESDPDADRTTL NHADHSSKIVQQDEERRRQLR ERARQLIAEARSQVVKMSELPSY GEMAAEKLKERSKASGDENDN IEIDTNEEIPGFVVGGGDELTN LENDLTPEQNSKLVDLKLKKL LEVQPQVANSPSSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSDSTVRKTQLQSF SQYIENRPEMKRQRSIQEDTKK GNEEKAAITETQRKPSEDEKGF KDTSQYVVGELAALENEQKQI DTRAAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLTLANLDDFEEDNED DDENRVNQEEKAAKITELINKL NFLDEAEKDLATVNSNPFDDPD AAELNPFPGDPDSEEPITETASPR\ KTEDSFYNNNSYNPFKE\VQTPQ YLNPFDEPEAFVTIKDSPQSTK RKNIRPVDMSKYLADSSKTEE EELDESNPFYEPKSTPPPNLVN PVQELETERRVKRKAPAPPVLS PKTGVLNENTVSAGKDLSTSPK PSPIPSVLGRKPNASQSLLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAADHGHHRPEP GRGTGQKACSELPSEACS/GIA IG*SLLCSACSVRSRKRQW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLLNPNINSPYNSPILPV QKPKDPYRLVQHLCLIQIVLPI HPMVPNPYTLSSIPFTTHYSVL DLKHAFFTIPLYSSQPLFAFTW TDPDTHQAQQITLAVLPQCFIDS PHYFSQAQISSSSVTYLGIIIMK THIGLGAVEQGVVLVGEARAA QEPMEWVGSGMVGCRSRALP RGKAAKARREIERSAVTIVPVL DFNPAFHIPDTPDHHDCISLIH LTFTFPFHISFFPVPHLEHTWFI GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFFTTTTMLLLIALIK QGELCESFDGKSLDGRDERVVI CFDAAAGLHRACSIRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTKNGFFS LETPEERQTSDLHKYQLAFRLF FIKYKNPAQFMAHLATTLRHFT ALDPESHNFQNLFSSSHLMHIL SAPRLLRLYSRFVESPTVTIVPG PDFNPASNIIPDTPDPHDCISLI HLAFTFPFYISFFPVPHPDHTWF IDGSSTRPNCHTPAKAGYAIVSS TSIIEATALPPSTTSRQAELIALT QALTAKGLRINIYTD/SHILHH HAVLWA/E/RGFLTMOGSSINA SLIKTLLQAALLPKEAEVIHCKG HOKASDPITQGNAYADKVPSL AHAPTLTLAPVLQCPLREVAGT EDDNGKAVLEIPSNIRKSAHVP VQTWKGWDPTNLLGGWFSNL GGFKTLVGTVIFIIGFLLFLPCVI PRIIKAIKTLVETTVSRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMSRQAKDD FLRHYTVSDPRTHPKGYTEYKV TAQFISKKDPEDVKEVVVWKR YSD\FRK\LHGD\LAYTHRNLFR RLEEFPAFP\RAQ\VFGRF\EASV DSRER\RKGAEDLLRFTVHIPAL NNSPQLKEFFRGGEVTRPLEV RDLHILPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMYKMNICNKPSNKTAPEK SVWTAPAQPSGSPSELQGQSR RNGWSWPPHPLQIVAWLLYLF FAVIGFGLVPLLPHHWVPAGY AVSLGKRRAGPWNPFVSAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNR SQHAHVIEDLHCNLCNVDVSA RSKHCSACNKCVCDFDHHCKW LNNCVGERNYRFLHLSVASALL GVLLLV/LGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRPGRL PARSPVQKRKGGWPKGKKNRP PRDLAV\RVPTTGymIFLNEQRS QLRATHPDLPFTEIMKMLAVQ WAQLSQDKKGRKYAGKALGV TPPPSALTPVALIEEPKQLDIQSL PFQPILDRLKIKDKRQLVPSYLG GMHTVTEGLAGRQVLLQQVQ GGAWESAFLTCPWAMAAAAP GPTLTMLQPSISAVGFSQMAMG PHVQGRASKLSIYVNPRRQLST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAPAAPLSSPGP PALGHAGHGRQLLERSLTFLH LYELLKYPRASPGLWPPRVWM PHSLTCGTFWVPMIMMRFAH VASGLLRPPFNQVFAHLSPAQG RHPGENGIIVLTSSRAAVRIRCSS CSRSLTGNLKKILPRTQSTWSL WRKRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKDGGKRRKRSRKESY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP GEL\AKHAVSEGTK\AVTKYHQ
22898	53266	A	23030	168	597	KEETDFLFWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKDG KKRKRSRKESYSVYVYKVLKQ VHPDTGISSKAMGIMNSFVTTF FE\RIAGEASRLAHYNKRSTITS REIQTAVRLLLPGELAKHA\VSE GTNA\VTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMVKKIEISQYAKYICSFL WQNSKMKRR\AVGIWCCG/SCM KTVKVSSSRNHIVWTYNTTSAV TVKSTIRRLKQLKDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPGLLG SRSITGFSLSKQAKRTKKVGIV \GKYGNPLWGPSLR\KMOVKK\IE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKTV\AGGAWT \YNTTSAVTVKSAIRRLKEFERP SRTLLYSLRTSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTSIC RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAVVRARELHTLEVTGLET VAQSKAHVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALTT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPRLCFAVSPPFSCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCTFRNSAEAFKCSI CDVRKGTSTRYLKICVTWVVV VI*QVFIEHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADEGFWDCSVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSD\ ILKDPPS\EANSIQSANATTKTSE TNHT\SRPRLEKRGTTGGIAQQFG QLTVG\NVTVIITDFK\EKTRSS\ TSSSTVTS\SAGS\EQQNQRLR GFRGATDKGSLPVPPNPKGRPC QAVNDESFLKLAHGNCGLWN SGVWKFNLPALPHAHLHPWEN LSCGTSTSLVDCQDNFLCHG HSWPPRDFRHPDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQEAHAKPDNLTLN EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLIGTWELKYREIRWLSQG PHGKPHADPGSSILQNSSGPSG VRTNGKSKPWEPFVAEEFAHQ FHESVLQSTQKALQKHKGSA VLSAEQNHKVDTSVHYNIPELQ SSSRAPPQHNGQQEPPTARKG PPTQELDRDSEGEQEEDDEDGE DEEEVPPKRKWWGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTDPASDNIPKA DEIRTLVKDMWDTRIAKLRVS ADSFVRQQEAHAKL\DNLT\LM EIHTSGTFLTQALNHMYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQEAHAKPDNLTLN EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF

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22910	53278	A	23043	2	642	RPRLLRDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIYLIGGDLGPFNPGLPV EVPLWLA\NLKQRQKCRLLPPE WMDVEKLEKMRDHE\RKETTF TPMPKPFTTLELT\KLLL\NHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSF\VRQQEAHAKL\DN LTLMEIHTSG\TFLTQALNHMY KLRTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAGSDGS LVGQAGVLPCELPTYYAACA LVNSRYSCLVAGPHQRHIALSP RYLNRKRTGIREQLDAELLRYS ESLLGVPIAYDNIKVVGELGDIY DDQGH\HLNIEAD\FVFCPEPGQ KLMGIVNKVSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFR\LDSDAAGVFCI RGKLNITSLQFKRSEVSEEV TEN GTEEA\AKKPKKKKKKKDPETY EVDSGTTKLADDADDTPEES ALQNTNNANGI\WEEEPKKKKK KKKH\QEVSR\TQDPCFSQGLT S\SGYQSDHKKKKKKRKHSEEA EFTPPLKCSPKRKGKSNFL
22912	53280	B	23045	82	323	

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22913	53281	A	23046	3	1624	QLEIRAPTAD EIHVTVG EARNLI PMDP NGLSDPYVKLKLIPDPRN LTKQKTRTVKATLNPVWNETF VFNLKPGDVERRLSVEVWDWD RTSRNDFMGAMSGVSELLKA PVDGWYKLLNQEEGEY YNPV ADADNCSLLQKFEACNYPLEL YERVRMGPS SSPSPSPSP TDPK RCFFGASPGRLHISDFSFLMVLG KGSFGKVMLAERRGSDELYAI KILKKDVIVQDDVDCTLVEKR VLALGGRGPGGRPHFLTQLHST FQTPDRLYFVMEYVTGGDLMY HIQQLGKFKEPHAAFYAAEIAI GLFFLHNQGIHYRDLKLDNVML DAEGHIKITDFGMCKENVFPGT TTRTFCGTPDYIAPEIIAYQPYG KSVDWWSFGVLLYEMLAGQPP FDGEDEEELFQAIMEQTVTPK SLSREAVAICKGFLTKHPGEAP GASGP*WGNLTIRAHGFFPLGF DWERLERLEIPASFSRPRPCGRS GENFDKFFTRAAPALTPPDRLV LASIDQADFQGF TYVNP D FVHP DARSPTSPVPVPVM
22914	53282	A	23047	1	1522	MLRAPRQATRDHHFAHIDIVQV TCFRYLRRSALAPAMPSPVR VDRGSFPPVAGGNHTRRRGGTP QEGVTREALAFFDVVATTGAE MMWSNFFLQEENRRRGAAGR RAHGQGRSGLTPEREGKVCLA LLLAAWAPRWCCPWAPSSG WTQHLQGQRQRRVRS GPTWG CGRRAPSGCGRRTCPWTGTPA APRSCPEASERNSEHPALICTLP QPHMLKRRARRAPGSMAPPLP RPPQAASVPVFPDWEPLSRA RSKSPLHSQHRPAQETGRHSRP RTSTRKRQQKHSTEKATHTPER APKPQTRENNPKGRAQGSAPR DHNPA SRHQKTSNDKRSTHDT HKTRKDSQTRRK KTRNNEKQQ PDR/IGPQIIAYQP/YGKSVDWW SFGVLLYE/MLAGQPP/FDGEDE EELFQAIMEQ/TVTPKSLSREA VAIC/KGCGRSGENFDK/FFTRA APALTPPDRLV/LASIDQADFQGF TYVNP/DFVHPDARSPTSPVPV PASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMMNPTPSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASESEDDFIKEKKKKSPKKR KLKEGGEKIKKKKKDDTYDKE KKS KSKFSKAGFTALNASKEK KKKKYSGALSVKEMLKKFQKE KEAQKKREEEHKPVAVPSAEA QGLRELEGASDPLLSLFGSTSD NDLLQAATAMDSLTDLDLEHL LSESPEGSPFRDMDDGSDSLGV GLDQEFRQPSSLPEGLPAPLEKR VKELAQAARAAEGESRQKFFT QDINGILLDIEAQTRELSSQVRS GVYAYLASFLPCSKDALLKRA RKLHLYEQGGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEEKDKEQRDRIC SDEEEDEEKGRRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL ERNNKAQAWEDCVKGFLDAE VKPLWPRGWMQARTLFKESRR GHGHLTSILAKKKVMAPSKIKV KESSTKPKDKVSVPSGQIGGPIA LPSDHQTGGLSIGASSRELPSQA SGGLANPPPVNLEDSDLDEDLIR NPASSVEAVSKELAALNSRAAG NSEFTLPAPSKAPAEKVGGVLC TEEKRNFAPSPSAPPPASSLQS
22916	53284	A	23049	1	379	A YRNFTSASDVWSYGIVMWEV MSYGERPYWDMSNQDAPNTAL LDPASPEFSAVVSVGDWLQAIK MDRYKDNFTAAGYTTLEAVVH VNQEDLARIGITAITHQNKILSS VQAMRTQMQQMHGRMVPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPPSAPL NLISNVNETSVNLEWSSPQNTG GRQDISYNNVCKKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNYTFEIVAVNGV SKYNPNPDQSVSVTVTTNQAAP SSIALVQAKEVTRYVALAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNTDIKGLNPLTS YVFHVRARTAAGYGDFSEPLE VTTNTGNKDHPDSVTSEAIFIIQ LNPITVKSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLLKWERKYTLYSSGVLK HKNLLESLLGQFLGPPAQRFD AGGVRPKNDGRFTVIQLVGML RGIGSGMKYLSDMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAAYTTRGGKIPRWT APEAIAIRKFTSA\SDVWSYGIV MWE\MSYGERPYWDMSNQD VIKAIIEGYRLPPPMDCPIALHQ LMLDCWQKERSDRPK\FGQIVN MLDKLIRNPNSLKRTGTSSRP NTALLDPSSPEFS\AVVSVGDWL QAIKMDRYKDNFTAAGYTTL AVVHVNQ/EVSTQRCNTKGDL ARIGITAITHQNKILS\SVQAMR TQMQQ\MHGRMVPR\STVLNK LKTLEISLPHPCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDLQDLL SAVRSPTKRQEQRWHRRTMAG IFYFALFSCFLGICDAVTGSRVY PANEVTLLDSRSVQELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVMEPSQNNWLRTDWITR EGAQRVYIEIKFTLRDCNSLPG VMGTCKETFNLYYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTEIRDVGPLSKK GFYLA\FQDVGACIALVSVRVFY KKCPLTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMSWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPR\APRGLHCSA/ASVSSEQS LVSPPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSWVQATLLARG LCRAWGGTTCGAAL/SQEPPSLR SLASLPRGLHCSAAHSSEQVL VPSPPEPRQEGPPRLLVPFEGPV LGQAGLGERGQGRAFL/LDGC RNLRTTSVRKRGP/VDLFYLA LRKMRE\YGVERG/DLAVYNQL LNIFPKEVFRPRNIIQRIFVHYPR QQECGIAVLEQMENHGVMPNK ETEFLLIQIFGRKSYPMKLVLRL KLWFRPMNVNPFVPRDLPQD PVELAMFGLRHMEPDLSARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKSRSSKAAL\ ARHNPS\RPV\FEGPFSWLRLN K\CVYY\HILRA\DLLPPEEEGK WKRTPEEWE\LYP\RQLDLEY VRSG\WDNYEFDINEVEEGPVF AMCMAGAHQ\ATM\VKWIQ GPAGDQPQTLAQNPWSFRLRR VQPGELPDILLQGWRS/HPAR GPPRKKTTCRQQQGPPELV
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRGLARAPSGPAVFSH LAMARLPLRGVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVSDCTEFTETECLPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQKGTSETDTICTCEE GWHCTSEACESCVLHRSCSPGF GVKQIATGVSDTICEPCPVGFFS NVSSAFEKCHPWTSCETKDLV VQQAGTNKTDVVCQPQDRLRA L\VVPIIFGILFALL\VLVFIKKV AKKPTNKAPHPK\QEPQEINFP DDLPG/SSNTAAPVAGRIFTWG GQPV\TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNCVR*GRTT ATTHSVTQRTDERQRRADTAL TLADYRNTSVTGVFAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGIINSDS KVR*SCRQSSARQSGSYL*TSPR SPQNRQQTGEITATVIAFGRTTR TAPDITPHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEV KALIQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPV YQRAFIWTASTFFFKLTYSLTDF SSTQHDFNSPTTPVTFSDL\AEQL AKEQDKESENQLLLQEVENHK KQMLSNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSTITESLMGISRMM AQQVQQSEAMQSLVTSSRTIL DANEEFKSMSTIQLGRKLITK YNR\RELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGPIIRQSECSIRTPL PFVRLALRD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DL\EVKAPIQDIRD\CSGPLS\AL TELNPKVKEKFQQLRHRPTGP/ VEQLAKEQDKESKQLLLQ\EV ENHKKIQMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKE\SLAQTSSITES LMG/ISGRMMAQQVQQSEAM QSLVTSSRTILDANEEFKSMST IQLGRKLITKYNRRELTDKLLIF LALALFLATVLYIVKKRLFPF VRFPKVPVLAPFNSLFSGICPWF PEAPRLPKAEHTPLRFAPQLP CRLGWEHQCPPLFLQSSWLVK GEQSPWEEGPGIGMPPLGTYP PPSHHCALWEAAAAWSTLKSE PPRTRMPLLSPAIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGAEELAMAAAEESGAP NVPNRRGGAGRPKTPFECNIC LETAREAVVSVCGHLYCWPC LHQWLETR\PERQECV\CKAGIS REKVVP\LYGRGSQEAPRIPELK TPPPPPRGQR\PAPESRGGF\QPF GDTGGFHFSFGVGAFPF\GFFT TVFNAHEPFRRGTGVDLG\QG HPSLQLGKEFPLPGFSAIFFLFW

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22940	53308	A	23073	1	416	MQRRRRRLLLLPPRRQTDRAL PPPPSPGSMPPPLPPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTSAPRASRRP RPSSCATRPPTSKPPPA\GHAPH PPPRDLGGGLDSGVQSDGVVLQ HLQRPGH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVVRNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAAYRKRKKGHKSSLSLSV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVVRNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAAYRKRKKGHKSSLSLSV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEDDYYGSAA EWGDEADGGQQEDDSGEGED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVQLLS ENYTAVAQAVNLLAE\WLIQT GVEPVQVQDTVEYHLKSLLIKH FDPRIADSMFTEEGETPAWLE\Q MIAHTTWRLDFYKLAEHPDC LMLNFTVKLISDAGYQGEITSV STACQQLEVFSRVLRTSLATILD GGEENLEKNLPEFAKMVCHGE HTYLFAQAMMSVLAQEEQGGG AVRRIDQEVQRFAQEKTVLTQE AIITVKGVSLSYLEGLMASTIS SNASKTIVAAMSNLVPPVELAN PENQFRVDYILSMNVDPDFDP PEFYEHAKALWEDEGVACYE RSNEYQLIDCAQYIFVLEMQVP CCEEAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVVRNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAAYRKRKKGHKSSLSLSV KINKTAAANK
22948	53316	A	23081	33	458	GITGSTDASGVTMKFNPVFVSD RRKNRKRHVNPASHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHHYKGGQIGKVHV YRKKYVIYIERVQREKANG/DK DRKKILERKAKSRQVGKEKGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVFPRLIVPFCG HIKGGMRPGKKVGVMGIVDLN PKSFAINLTCGDSPPADGAIE LKAVFTDRQLLRNSCISGERGE EQVSNPLLSIHSTTMPFRVEILC EH\HCFR\VFVDGHQLFDFYHPH SNRYLAI
22952	53320	A	23085	1	215	QGFIPPLKEENFTLPPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGPGCNKRWPCLAKDPPPTP QSSGVGQPFGGAEPAGAYIRTG PHLGPPPPPPDSSTNLHSPNPS DDGADTPLAQSDDEEERGDGG AEP\GPAASSGPLAYRPDPAGY SPTSRPPGPSPEPLG/AEDPDSLL ASRAPRGNGWWDGCGTSL
22954	53322	A	23087	1422	1670	NRYIDKTGWAWWLTPVIRHFR RPRWVDCLRLGVREQPGQHSKI KSLQKNAK\ISQAWWHAPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLLDERSAALDGAKRDLAL AAGALCREARAAQVFLKGGY EAFSASCPELCSKQ/INVSANCP NHFEGHYQYKSILCGMTTHKA DISSWFNEAIDFIDSIKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFV SIPDHSTNSALSYLQSLITTSSHC
22956	53324	A	23089	3	206	

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22957	53325	A	23090	982	2252	LFLEKRRPALGPENRQRAPQGR STLGALRPAMVMEVGTLDAG GLRAL\GERAAQLPACLDERS FF\AFNAGHIAGSVNVRSTIVR\ RRAKG\AIGALE\HIVPNAELR\ RLLAGAYHAVVLLDERSAG\LD GAKRDGTLALAAAGRA/LCREA RAAQVFF/LSKGGYEAFSASCP\ ELCSKQSTPMGLS\LSLSTSVPD SAESGC\SSCSTP\LYD\QGGPVE ILPFLYLGSAYHASRKD\MLDA LGHRLPWINVLSQIVPNHF\EGH \YQYKSIPVEDNHKADISFWFN\ EAIDFIDSIKNAGGRVVFVHCQA GISRSAT\ICLAYLMRTNRVKLD EA\FEFVKQRRSIISP\NFQLHGA SLLQFEFPRMLGPALFRAEAGK PRQMAVL\DRGT\STTTVFNFVP SIPVHSTNSALSVFPRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG\VKRL \KKEK\LYEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\R MMIPD\CQRR\LEAA\YLDLQRI LENEKDL/EKEAEYKEAR\LVL DSVKLESCLKFSYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAFTDHR ATEWGTNDQSLCLNSP*\DAPS AKHEYQASVSGSVSSKPEIDLQ LYDEV RDQDVPVKRNFARIVV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVLYSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNQRTQQKHNGASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGSQTLPSTRLEP GSSAAWLDPEEQAQSLQFSSQE APFLGEGGENHIKGVPHGTKE QQQLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRKFGMPWHKPT WIMTL*FPLEKTGALSLSLSDTS MFTVVVLTGGLPLSEA*T/GG NYDSHFDVDKGTGTIIVAKPLD AEQKSNNLTVEATDGTITILT
22967	53335	A	23100	1	1782	MAARIEVIHELISIRLLLMKTDL DAATAALLNVQPAKSGDNTSG APFPGKISQTLKDPHNGYHV FALAGSPKDADDTSIYMFYQK VGDNIDSWKNAGRVFKDSDK FDANDPILKDQTQEWSGSATFT SDGKIRLFYTDYSGKHGKQSL TTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHFKHGGGATIK GRVADNGKPQLSSLTYIDIRVIE ESIYPPAILPLEIFITASGEEYSGG VIGKIHATDQDVYDTLTYSLDP QMDNLFVSSTGGKLIHKKLD IGQYLLNVSVTDGKFTTVADIT VHIRQVTQEMLNHTIAIRFANL TPEEFVGDYWRNFQRALR\NIL GVRNDIQIVSLQSSEPHPLDV LLFVEKPGSAQISTKQLLHKINS SVTDIEEIIIGVRILNVFQKLCAG LDCPWKFCDEKVSVMST HSTARLSFVTPRHRAARQQ\R GPPLHNPADT*TTARKYNCDKR
22968	53336	A	23101	184	13958	AMGRHLALLLLLLLLFQHFQDS DGSQRLEQTPLQFTHLEYNTV QENSAAKTYVGHPVKMGVYIT HPAWEVRYKIVSGDSENLFKAE EYILGDFCFLRIRTKGGNTAILN REVKDHYTLIVKALEKNTNVE ARTKVRVQVLDTNDRPLFSPT SYSVSLPENTAIRTSIARVSATD ADIGTNGEFYYSFKDRTDMFAI HPTSGVIVLTGRLDYLETKLYE MEILAADRGMKLYGSSGSSMA KLTVHIEQANECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTREFSIYFLEKYTTFPGE NLEHGFWDSSSTPPVLLHPGIPA SRJ/PVSSIFTKVPPKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVD FRKKPPF LCVSLSLINIFKSNKFLLTTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGPLHTPAMFLRRL GGWLPRPWGRRKPMRPDPYP EPRRVDSSENSGSDWDSAPET MEDVGHPKTKDSGALRVSRRA SEPSKEEPQVEQLGSKRMDSLK WDQPISSTQESGRLEAGGASPK LRWDHVDSSGGTRRPGVSPEGG L\GVPGPGAPLEKPGRREKLLG WLRGEPGAPSRYLGGPEECLQI STNLTLLHLELLASALLALCSRP LRAALDTLGLRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLA VSLREPN GDEAATDWESEGLERE GEEQR GDPGKGL

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22972	53340	A	23105	122	2437	RLELKLPLWTMRFTMELLGH LSIFKITGKQKQLTRTAPGPSGQ LRNQTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQQTWTNRQVSSA PTKQQTAR\PSGQPRSNQTTG NSLEPSSQLRSNQTTGDSVQPN NREQPGTVRSAPLQPNNRGQRP TKQQTAR\PSGQPCSNQTTGN SLEPSSQLRSNQTTGDSVQPN REQPGTIRSAPLQPNNRGQRWD RQVSSAPTKQGTALGPSGASSAP TKQGTALPSSQLRSNQTTGN SLEPSGQPRSNQTTGNSREPSSQ LCSNQTTIGNSQDRQVSSAP/IQT TGNSQDRQVSPAPTKQQTAG NRQVSSST/PIQTGNSVQPNNREQ PGTVSGAM/VWVATPVKGP VETSAHKVSAAGLPKKKT/QPG VTGGAPRLTLNTVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LTLEEAPCTVEITTALTLEPPC TVFWNKTERNRTLVDKGSN TKGFVQTATCCFRADCKASRPS PHPPSPHREWTSDLRHKQVSKF PGAHLRPGHPELPIQEAWDRGE
22973	53341	A	23106	605	813	LFVFINFRENPALLRWAYAR\TI NVYP\NFRPTPKNSLMGALCGF GPLIFIYYIIKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNKVPSWNQKA\PSPTKPAG TLIFDFPAVKTVRNKFVFFINYP VSGYTEDLKKFLKPYTLEEQKN LTVCPDGALFEQKGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRRIIGLKSEGVPRID CVSKNEDIPNAVAVPHNGIIDL KYFPYYGEKLVGYLQPLVAV QVSFAPNDTGKEVTVECKIDGS ANLKSQDDRDKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCTTALQ PGQHSQKENLQNKPIGREKY* VSIEFELIYFP/YYCQVGYLQPL VAVQVSFAPNNTGKEVTVECKI \DGSANLKSQ\DDRDKFLG\RV MFQNHSTVHMSRVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKKS LNQSL AE\WKLFIYNPTTGEFLGR TAAS WGLILLFYLVFYGFL\AALFSFT MWV MLQTLNDEV PKYRDQIPS PGLMVFPKPVTALEYTF SRSDP TSYAGYIEDLKKFLKPYTLEE Q KNLTV\CPDG\ALFEQKGPVYV ACQFP\ISLLQACSGMNDP DFG YSQGNPCILVKLNRIIG\LKPEG VPRIDLCFKRMKDIPNVA VYS\ HNGMIDLKYFPYYGKKTAMF/ VGIYQPIGLLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD\ RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAGQ MGHRVQGRHGSRGRLP SG DAR VNAERAEPVGAGAGGPGGGSS VRGFCGRSWSEA/RGRRRAGG GVHMEP\RYRQFP\QLTQIPRCSQ SEF\FSGLMWFWIF\WRF WHDP K\KVLGHFPV/YPDPSQWTD\EE L\GIPPDD
22978	53346	A	23112	1	390	VTIPTSLAELQGLPHIRVFLDNN PWVCDCHMADMTWLKETEV VQGKDRLTCAYPEKMRNRVLL ELNSADLDCDPILPPSLQTSYVF LGIG*ALIGAIFLHYRNNGPLTIS SEGGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIQRGVPTRGEEVAPGRRQE EEREQERGAERPDPCCVLSGGK GRGNRPLREAPGGEGVSQVPA AAPLPRFHERKVFFFQTLPPAR ALRAQPPEPSEAPSPSSGETR AAMPGGCSRGPAAAGDGRRLRLA RLALVLLGWVSSSSPTSSASSFS SSAPFLASAVSAQPPLPDQCPAL /CACRSEAARTVKCV\NRNLTE VPTDLPAYVRNLFLTGNQLAVL PAGAFARRPPLAELAALNLSGS RLDEVRAAGAFEHLPSLRQLDLS HNPLADLSPFAFGSNASVSAPS PLVELILNHIVPPEDERQNRSE GMVVAALLAGRALQGLRRLEL ASNHFLYLPRDVLALPLSLRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALKVLHNGTLAELQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQGDRLTC AYPEKMRNRVLELNSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNKGIKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSSNSGCLEEIEDRPTTLH
22980	53348	A	23114	288	877	ASRLSLPTRTSMRSSSSTSPSSSS SSSLCRFLNLSRVTDAAFNFL VWYYCTLTIRESILNNGSRWG RAGPEGGEHGMGCQGPSKGR EQGAGG*WWVFCSR\KGGW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLSFSMYQSFVQF LQYYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSPFLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSRLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTPLYDLP PNVRFTSMSPASPTYFLVLGAPI FLLLRSTWSYYHACRFEYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTHILISFTC RFLNSRVTDAAFNFLLVWYY CTLTIRESILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFLQY YYQSGCLYRLRALG\ERHTM\D LTVEGFQSWMWRLTFLLPFL FLW/YNSGQLFNALTFLKPGPR DPQLQGVGRCLCCGFPFL\ALFL GNFFTTLRVVHHKFHSQRHGS KKDLRLGLSPCRPRRGFLVPVC FWEGDWEGAPSSVRVSGGLFY SPLGFMGRCGPGKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGP\AKIVCIYWALI LQSNEVTITDKFN\NLIAAAV TVEPFWPSFFAKALASVNIGSLL CNAGVG/SMAPA\ACTAQAGGP ATSTTAASASFRNHNPRIAPKFR GVLAHEQYLSE\RAWVWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
22990	53358	A	23124	195	398	TDSSSALQPQHRGRPALRQRTP PRRSP/SPGLSPPRGASPAS\SGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSSSYSDSRRQEIGK MRYVSVRDFKGGKVLIDIREYW MDLKRLPRKPRTGEAGSGSLSS PGADTPVEAAVTWRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGDSSALSMASLSTL TCSWGLRYSALSPTTSAQREEG SALYRHLSPPSLRFYPTVKWAT LAITRPRPPAPRSHSHHPQPRAL CPVWVLFQHPKTHGENLGDRW KEGSALVSSKGTPAKLSSGRIR NALQNTLGEVSVARIQTHRGIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLQCQRANDQE GVRLLPESEAMPKSKELVSSSSS GSDSDSEVDKKLKRKKASLL/P ENPVKK\QKTGETS\RALSSF*TE PASSRDDNMFQIGKMRYVSV\ RDFKGSAA*FDIREYWMDPEGE MKPERKGISLNP\QQWEP SLKE QISGPLIDASKKTCKISEPILIKPC TVPVVLICLVTVA VCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGLSWALLLLLLGSQIL LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQQSKDYY AYRLGHIFNSWKEQVESKTV\F SMELLGRTRVWEYLKTTIDNC HFQESTELNNTFTCFITSTRPW MTQFSLLNKTCLGEGH
22996	53364	A	23130	232	402	LFKA WECFFLIFLQVVITRLKLD KDRKKILERKAKSRQVGKEKG KYKEETNEKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQIK KEKGEYKEETIGTMRECGL

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22998	53366	A	23132	1	1095	IVFLLYLETCLEVMDDKPNPEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTTRRRYYRHSLHLQ GAIEDWNNNESSMPCCVLQLGDI IDGYNAQYNASKKSLELVWQ FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDDYYAYHFVFPKFWFI LLDAYDLS/ALGAWDQSSPKYG GSVWKILEGSHNP\NTGNWNSS SRDFSEA/RSLFQFNGRVSAQE LNWLNEVLTFSDTNQEKVVIVS HLPALYPGPPFDNVCLAWNYRD ALAVIWSHECVGVSLLGHTHD GGYSEDPFGVYHG\NLEGVIET APDSQRFGTVHVYPDKMMLKG RGRVPDRIYELQGKEEP SHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRRSLAFLLLAERGAAAA VLWSGCRRFRARLGCLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAQQL GFGGVYIQTDVGGSGHVRLDT SVIFEALA/TGCTSTTAY\IRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCHRG
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLQAQGVINY RMLLSWRRWLVAHPVF*SFSCE VGPVGQS*RTMMLHCRHSDPV AKRLSCRRGDFASVVVLCPPPQ RLRTLKHFLFFGGGLPLSIDFVMT VDFCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTPAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGPAALAYLGLKTLCTSQQAF AGQMKSDLFLDDSKSDLEEW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCPLPVCPPVCNCPA CPCHEHCGEAP*GVA\AKRGAL RVHHPHSCGGPRAMTVTLHGQ DVLMLPGDLVGLQHDAGPGAL LHCSPAPGHGPGQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNLS CSFDVVSVPVAGLRVIYPAPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLVVLLAGSSGYLVG FKFLESHGSDSGSANSFHCLISQ NEFKTLLPDLTRAPRYSPVVEA GSDMVFRWTINDKQSLTFQNV VFNVIIQSAAVFKLSLSADSAP RPRWRLQSPRVGRSLSPDPGFFG SPGPCQPRLQAFLI
23017	53385	A	23151	648	1387	ASTQSLLAWCPA WLSIPSTWPS SFSSGCPG/CKAQPVEVSRSSY VYLEGRCLNCSSGSKRGGYTFT LTVLGRSGEEEGCASIPSPNRP PLGGSCRLFPLGAVHALTTKVH FECMGWHDADAGAPLVYAL LLQRCRQGHCEEFCVYKGSLSG YGAVLPPGFRPQFEVGLAVVV QDQLGAAVVALNRS LAITLPEP NGSAMGLTVWLHGLTASVLP LLRQADPQLVIEYSLALVTVLN ETYTESL
23018	53386	A	23152	2	654	DKHIWLSIWDRPPRSCFTRIQRA TCCVLLICLFLGANAVWYGAV GDSAYSTGHVSRLSPLSVDTV AVGLVSSVVVYPVYLAILFLFW MSRSKVAGSPSPTPAGQQVLDI DSCLDSSVLDSSFLTFSGLHAEV INTLADHQHRTDFGGSPSVLII TVSLRSYKFAISLCTTYLVVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHLNLSSHFRWSALQ VSVGLYTSLCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVFEPTA DVNYIVMLTCAVCLVTYMMV AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWGRSGT TAHVGMILYGVDSRSGHRHLD GDRAFHRNSLDIFRIATPHSLG SVWKIRV\WHDNKGLSLALGFL Q\HVIVRDLQTA\QSTFFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLGLWLGA LAGGPGRGCGPCEPPCLCGPAP GAACRVNCSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGHSLLRDVSH NLLRALDVGLLANLSALAELDI SNNKISTLEEGIFANLNLSEINL SGNPFECDCGLAWLPRWAEQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSGCGATLVGPHGPL ASGQLAAFHIAAPLPVTATRWD FGDGSAEVDAAAGPAAS
23021	53389	A	23155	3887	14184	HVLCWVVTYMMVMAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWGRSGTTAHVGIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTKGSALPRFPCSTSSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVRPRSVFPLR HAALLRFRLLGAELQRGFFDK HIWLSIWDRPPRSYFTHIQRATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRLNPLSVY
23022	53390	A	23156	1	442	GGASGMGGIT\ASTVNQ\SLLS LVLEVDP\NIQAVRTQEKEQIK\ TLNNKFASFIDKVRFLEQQNKM LETKWSLLQQKTARSNMDN MFESYINNLRRLQLETLGQEKLK LEAEFTTWGPPLPMPPATKQFN CFFFLVQNKTSASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPSRISAWFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSGPGFRISSSSF SRVGSSNFRGGLG\GGYGGASG \MGGITAVTVNQ/SRALLSPLVL EVDPNIAVVRTQEKEQIKTLNN KFAS\FI\DEVGFLEQQNKMLGT KWSLLDQQKTA\RSNM\DNMF\ ESYINNLRRLQLETLAQEKLKLE AELGNMQGLVEDFKNNYED\EI NKSTETENEFVLIKKDVDEAYI NELYEEEIRELQSQISDTSVVLISI DNSRSLDTSIIAEVKTEISEMN RNISWLQAETEGKGGRISELA GIADAEQRRELVIKDANAKLSE LEAALQQTKKLLE\MENMSIHT KTTSGYAGGVSLAYGGLTGSG LSYGLSSSSRSGAGSSSFRTSSST RAMVVKIKIKTRDGKLLTSLR
23026	53394	A	23160	1	651	MTAFNSGKVDIVAINDPFIDLN YMVYMFYLDSTHGKFHGTVK AENGTLVINGNPITIFQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGAAPVGVKVIP ELNGKLTGMAFHVPTANVSVA DLTCRLEKPA/KYDDIKK\NTHS STFDAGAAIVLKDHSVKLISWY DNEFGYSNRVVHLMAHNASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASAHASAVRQSAAIFFCVASRA HIAETPLGKVKVGNGFGRIGR LVTRAAFNKGKVDIVAINDPFID LNYMVYMFQYDSTHGKFHGT\ VKAENGKLVINGNPITIFQE\RD PSKIKWG\DAAGAEYRRGSPLGV FNQPWRKAGGSICKGGSQKGSS ISAPSAECPPCFVMGCEPMKKY DKQAFK\ISN\ASCTNQLL*HPL AKG*FHDNFGNSLEGLHDHKS MAITANPRKTVD\GPSRGKLWP LMGRGAL\QNIIPASTG\AAKAV GKVIPELNGKLTGMAFRVPTAN VSVVDLTCRLEKPAKYDDIKK VVKQASEGPLKGILGYTEHQV VSSDFNSDTHSSTFDAGA\GIAL\ NDHFVKLISWY\DNEFGYSNRV VDLMAHMGFQGS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRADFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCHEKGRKGHQAPTGSTRPDG TLSACRSCQQGQGPASAGVP ARQMGSTGNLPHLV*PYFLGLS SKAQHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSSPNSASGSAICP ASSVMPETVSVSRVMPNVTKP A/MTAKQTRIRNQMVAITIES DAWNRSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPLAHPVPGAAAQPP PA*QPATPCHQPA*GQPAPPDV PGEPSAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTRLTSVCKRRCEVHQ LEDRPFVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTVVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQQVGSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVLRAGRVPSVQGTSPSQ SCPGQRPHGPNASKAYGR/LSVM AQYYCNVIPVLE/VPPSAFTPPP KVDSAVV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIRNS LGNLFSVEVLTGMGIDPAMRA ENISVAQYQCMANYLAENAPL
23046	53414	A	23180	1846	2557	IPVSERQGS DWRFFSVYV VNK A GGLIYQLDSYAPTGLRLEKTF S YPLDLLLKLHDERVLVAFGQR GRHPEWGHAVL AINGMDVNG RYTAD\GKKVLEYLG NPN\ANYP V\SYLFAQ PRL\TSNDKLM LAL MFHSLFAIGSQACLPEQGK PQG IENAWKTD TFKLH\CYQTLTGI KFVVLADPRQAGIDSLLRKIYEI YSDFALKNP FY SLEMPIRCE LFD QNLKLALEVAEKAGTFGPGS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRSERRRRQMADFDTYDD RAYSSFGGGRGSRGS\AGGHGS RSQKELPTEPPYTAYVGNLPF\N TVQGDIDAIFKDLSIRSVR\LVR DKVTGKFK\GFCYVEFDEV\DSL K\EALTYD\GALLGDRSL\RVDF AKGRKTKIRVAFGF\RKGGPDD R\GFRDDF\LGGRGGS\RPGD\RR TGPPMGS\FRD\GPPLRG\SN\MM DFREPTEEERAQRPRIQ\LKPRT VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYLDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTTFPVPGALTWLLC TTLFLFGYVLGCCFLAFCIRSLM DVKHSCPVCQRELFFYYHRLRQ MELASSARTVVAPSRPCAGREG RGDANGKNSSPTAGSAMSSEPP PPPQPPTHQA\GVGLLDTPRSRE RSPSP\LRGNVVP\SP\LPTRRT FS\ATVR\ASQGPVYKGV\CKCF CRSKG/HIGFNYPPAGWAGPDIF PGTSLDVGRGSY\VP\SGKGDEV TLLKCAPIPTPKNEKLAGPWEV VHHSPWHPGT\KHET\WSG\HVI SFLGGLVESTPLSLCFVGDFA RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGC GVPFPAISTAYGPLQQLHHLKSIKSH LKRRGAHWWLSGGSNPIPGSGS RVGISSQLAQTHGLNPQNPS SSWSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP/PIFPSLDLSGFFLF CSEFCPEIKSTNPGISIGDVAKE KKKLGEWNSLNDSEKQPYFT KAAKLKEKYEKDVADYKSKG KFDGAKGPAKVARKKVEEED EQEEEEEEEEEEEEDE

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23056	53424	A	23190	116	522	KAPYSTNSLSLPPFPILFMGSGY RKGPTFQEPKPLPGAAARGPGC DPTQPPRHSAPRDHGPP\SPRCS PRPARPRASPAWLPPRAPTPPSP PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAWPVLLGLLLA LLVPGGGAAKTGAELVTCGSV LKLLNTHHRVRLHS\HDITYGS GSGQQ\SVTGVEASDDANSYW RIRGGSEGGCPRGSPVRCGQAV RLTHVLTGKNLHTHHFPSPLSN NQE\VSAFGE\EGEGDDPGTLW TVRCSGTA/HWEREAAVRFQH VGTFVFLSVTGEQYGSPIRGQH EVHGMPQCQ\QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVSGSSGL AAARLLSR\SFLLPHNGIRHCAY TA\SLRQHLYVDKNTKIICQGFT GKQG/TPFHSQQALEYGTKLVG GTPPGKGGQTHLGLPVFNTVK EAKEQTGATG\SVIYVPPPFAAA AINEAIE\AEIPLVVC\YPRGIPQP GLGHSSSHKTCGPGKDKAYWG PNCPGV\INPGECKIGIMPG/HIF HKKGRIGIVSTSGTLTYEAGH/Q TTQKLGLGQSLCVGIGDPAFN GTD\ID\CLEILFERFLPQEGII G\EIGGNA\EENAAEILEPLYSGS KF/ARPVVS\FIAGLTAPPGRRN GVMPGAIISGREKVGAKRERSS ALQSAGVVV\SMSPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWKSRHIDQEK REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKMYR TEIRMARMATKAGNFYVPAEP KLAFFVIRJRGINGVSPKVRKVLQ LFLLYQIFNGAFVKLNKASINM LRIVEPYIA/WRYPNLKSVNELI YKCGYGKINKK*IALTDNALTA RSLGKYGIICREDLIHEIYTVGK CFKEANNFLWPF/K/LSSPRGGM KKKTTHFVEGGDAGKREVQIN RLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTIIRMARMARKAGN FYVPARTQIWRVFVIRGINGS EPQRFKVLQLLRPVKIFNG/T PFVKLQQGFRFNMLRDCRSHIL AWGYPNLKSVNELIYKRGYG QNQFDLHFPTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVRPRVRDSKMASVGEVSGP QYPVKDKKLL\EVQTGGSFPSW \ILMRGPSSPSGIFG\AFQRGLLR GTYNKY\INVKKGSDLGGFTMV LACYVLFSSFSYKHLKHER\ LRKYH
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEW GK* LNGGRVLWM
23065	53433	A	23199	123	693	QACIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDAQQCMLLEIDTAG TEQFTAMRDLYMKNQGQFALV YSITAQSTFNDLQDLREQILRV KDTDDVPMILVGNKCDLEDER VVGKEQGQNLARQWNNCAFL ESSAKSKIYVNEIFYDLVRQINR KTPVPG\KAPQKSPSCQLL
23066	53434	A	23200	461	1422	SPHGEPLLQQRREMVGWSLH TESPLGQWGSQILKLQNDLL
23067	53435	A	23201	232	331	TPL*KWLRGVMVAVTVVTPQTG IIAIPDPHHEWGSGTGYPRIPA

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23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGLLAGKRK MSVLRRMMRVSNRSLAFIFFF SLSSSCLYFIYVAPGIANTYLFM VQARGIMLRENVKTIGHMIRLY TNKNSTLNGTDYPEGNNSSDYL VQTTTYLPENFTYSPYLPCEKL PYMRGFLNVNVSEVSFDEIHQL FSKDLIDIEPGGHWRPKDCKPR WKVAVLIPFRNRHEHLPIFFLHL IPMLQKQRLEFAFYVVEQTGTQ PFNRAMLFNVGFEAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHFAAKLDKMYILPY KEFFGGVSGLTVEQFRKINGFP NAFWG\WGGEDDDLWNRVH YAGY\NV\TRPEGDLGKYKSIPH HHRGEVQFLGRYKLLRYSKER QYIDGLNNLIYRPKILVDRLYT NISVNLMPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPPFQLGRGRMVPAKK GGEKKTGR\AINEVVTREYTINI HKRIHGVGFKKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDEDSPNKLYTLVTYVTVTTF KNLQTVNVNVDEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSVLVA RLAPLFPPTMSDKPDMAEIEKF DKSKLKKTTETQKNPLPSKETT EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPSRSSTSPSINE DVIINGHSHEDDNPF\A\EYMW GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEEGKEG ALNWVLFPSFEILPHQTMGPNP RTSFNDPCLSSDGSFSWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLDVAQFPHCEGSIRR LNCKSSLGHCVTLYAIAQSFC
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFSKVPPHAAFRAQPPPALT WGLAKGSGRGAGEGGERPDRR R\PAARTGTPAWRPAGRRRLPP RSPPAPVPVRPALPHVVRPGKE TGKTRRRRHYSRPLRGAAA AAAAA\VAQTASPSWAEGGRS GAGGSAESP\AFSSPALPCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLPRRPTRPPTRSGVSPWP GPH SGVLFPLLHCTGSLSQAVLTQ PSSLSASPG\ASVKLTCTLRSDIN VGSPFIYWYQQKPGSPQFLLR YKSDSDNQQSGVPSRFSGSKD ASANAGILLISGLQSEIVRDDYY CQAWDSSTAHS DTGRCGIVGRP PVRQCWPLLLLGLAMVAHGLL RPMVAPQSGDPDPGASVGSSRS SLRSLWGRLLLQSPQRADPRC WPRGFWSEPQSLCYVFGTGTK VTVLGQPKANPTVTLFPPSSEEL QANKATLVCLISDFYPGAVTVA WKADGSPVKAGVETTKPSKQS NNKYAASSYLSLTPEQWKSHR SYSCQLQWGLGLGASQGGFLY EPVSQCVVFGGGTKLTVLGQP KAAPSVTLFPPSSEELQANKAT LVCLISDFYPGAVTVAWKADSS PVKAGVETTTPSKQSNNKYAA SSYLSLTPEQWKSHRSYSCQKP NHASHGTSRMPVSAPVSGLK CWSGTGDRSALGQMPGPCHGI PDPMQQASDSGQPKAAPLGSL CSKPSSEELSGQQGPHWCVS
23077	53445	A	23211	1	959	VFLLLYL VAMPDPAKSAPAPK KGSKKA VTKAQKKDGKKRRR SRKESYSVYVYKVLKQVHPDT GISSKAMGIMNSFVNDIFERIA GEASRLAHYNKRSTITSREIQT VRLLLPGELAKHAVFIENLLNY RKYL VKSSEKDRNYPCLPGLK SKVDICTPYCLLLPQPRHYPG KDTKEETEDFPNSPPINREEDK RYTTVMGPCLRQA ALEGELLA CPVMEDQQANWVHEPITFNTF KEIRKSIRENGPASPFTRGLIEVI ADSSDLVASTQKLTPKETPSA PYNDISDLTNQDSWFIGFPPIWN AGETDLSNNKTT
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	PDPAANAPAAAKPAAAKALPV FLLLLSGGAGPAHPMRAPGC*G ELGYTEQLFQFLQATAQEEGIF EYTDPKLAISAVWTFRDLGVLQ QTPSPAGPRLHLSPTFASLDNQE KLEQFIRQFICS
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKCLKHP GPRGRLQYSPPTAGQGRLNG AGHPQSTGPVATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQTCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLKLLFLNVQLHKGQ MKMVQKAAQQVGQVGTSLWL SPEQGLPLVLLSTHKTLLDGILL PFMLLSQGLGVLRVAWDSRAC SPALRALLRKLGGFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SGQPLLIFLEPPGALGPRLSAL GQAWVGFVVQAVQVGIVPDAL LVPVAVTYDLVPDAPCDIDHAS APLGLWTGALAVLRSLWSRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRTLEQLLQPIVLGQ CTAVPDTEKEQEWTPITGPLLA LKEEDQLLVRRLSCHVLSASVG SSAVMSTAIMATLLLFKHQKG VFLSLLGEFSWLTEEILVRGFD VGFSQQLRSLQLHSLSLRAHV ALLRIRQGDLLVVPQPGPGLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPPQGPWELQGILL SQNELYRQILLMLHLLPQDLLL LKPCQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRLS RKLLWKPSGDFTDSDSDDFGE ADGRYFRLSQSHCPDFFLFLC
23084	53452	A	23218	169	955	ASSQLPCSMACCATWAPLKM RWLCSTAWSTSSLSLPPSWSSL QASQPSCCHATSLAPPCAGQCL ARAWPVLSFLCTCALGLLASIA MTFATQGKALLAACTFGSSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLELRP\WWGKKQPTHMMRE NPELVEG\RDLLSCT\SSE\PLTL CRDDVLPRP\DGQLRTLQATLL CDPGPGLGAGLRGLKWTGG P\SGAFQPSSPTTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRLSLADSSLSWKMFVLG LTGGIASGKSSVIQVFQQLGCA VIDVDVTARHVVPQGYPAHRR VEVFGTEVLLENGDIRKVLGD LIFNQPDRESLNAITHPEIRKE MMKETFKYFLRGYRYVILDIPL LFETKKLLKYMKHTVVVYCDR DTQLARLMRRNSLNRKDAEAR INAQLSLTDKARMARHVLDNS GEWSVTKRQVILLHTELESL YLPLRFGVLTGLAAIASLLYLLT HYLLPYAYTASAIPPSGAASRG PGARCSAIRKRAPARPTSAVSP GAPRSPARGLRADRAAGTRNL NATLPPPGPPAPPSPPSPSSITL HVFHQLQPDITRGREGTDFQWE KFPGRVLVADSRRLRCLAPAP TWLV
23087	53455	A	23221	2	1231	TPLFLRKGTADGSARTTVIHLG FTKGKQRCVETQAAAVAGDVG RTAAGGRVGKESGVISDDRPG LPVGQSQPEGGEQEATDTVSVH ATTSSQAWPGGADSKELSSKAE ERETGKDQQTELPLCLPLRDFP DSAPVMSSDSGHATESLHLASS DSKPPMPTPNEGPGSTVGHAGP PRTVKADLCTEPQLALRGLQVS LPLRLHLVGVIYAEHQASGLEGC GHAGSCSPDGSPRAPGATLCLS KPLSFRTKRCLPCWLPASAPVGI PGAPVHIPGAPVCIPGAPACISN APVHIPGAPVGIPGAPVCIPGAA VCVPNTPMCIPSAPMCIPNTPVC IPNTPVCIPNTPVCIPGAAVCILG A/PRAHPWCSSCVHPGAPECYL GCGLTQADRLEPAVLDAQLQE PLFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAICMCLGLCKKIHLLSLQ CLISQIKMIMGAGWQ/SSGFTDE KETSKIKADPEKLKKLQESLLE EDSEEEGDLCRICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGAVKTCMC KQGLLVDLGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYNVTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLHLLHLYEQRFAEL MRLNHNQVERERVVRVTRVLGG LSPNVSCGVVSGVGSFQWVRG LTDLKNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDVTVTNGPFIDL NYMVYMFHYDPTHGKFHDVP MFVMGMNHHKHNKLTVISNAS CTTNCLDPLAKVIHDNFGIREG LMTTVHSHIATQKTVDGPSRKL WHDHGAQNTIPASTGAAKI KKVVRQA/SQGPKGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	
23093	53461	A	23227	1078	2221	QQTLOPAALPCFPPTHPPEVL PTAMNTTSSAAPSLGVEFISLL AIILLSVALAVGLPGNSFVWSI LKRMQKRSVTALMVNLALAD LAVLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPFVSQKLR TKAMARRVLGIWVLSFLLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHRFAHLIFEAVTGFLLPF LAVVASYSDIGRRLQARRFRS RRTGRLVVLIIITFAAFWLPYH VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALAFLSSSVNP VLIYACAGGGLLRSAGVGFFVA KLLEG\TGSEASSTP\RGGS LGQ TV\KSGPAALEPGPSES LTASSP LKLNELN
23094	53462	A	23228	6125	6319	ASVVPVTSALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQQTREREHVQGNSPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECISIHVGQAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDEVRTGTyrQLFH PEQLITGKEDAASNYARGHYTI GKEIVDLVLDIRKLFGGGTGS GFASLLMERLSVDYSKSKLEF AIYPAPQVSTAVVEPYNSILTT HTTLEHSDCAFMDNEAIYDIC RRNLDIERPTYTNLRLIGQIVS SITASLRFDGALNVDLTEFQTN LVPYPRIHFPLATYAPVISAeka YHEQLSVAEITNACFEPANQMV KCDPRHGKYMCCMLY\RGDV \VPKDVNAAIATIKTKRTIQFVD WCPTGFKV*LGDMEAFQQAAD AQNTGLEGPHPLGRLSLFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPEATGQ TSGQRPEALQAFWPAFGSSPVT GSSPVTEVTTKGRWSSSRQVL WDRIPLAKSRPAISNRQSRTNI PWWESCPILNLEREQPPRFAQP GTYASRWKALEEMEKQREQ VDRNIREAKEKLEAEMEAAARH EHQLMLMRQDPGLALVSCMQ QGQSMSRSPKKVFkHLYELNL TKLQSLGSRSLRWKDSPFWGE EAGGKRPLVSLALHRSPSLLL LFVPKHPSKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAEEEE DGGPEGPNRERGGAGATKTL YTG NHLFS PQWLETRPERQEC VCKAGISREKVVGESLLTFSL HFLRLKTPQICRLPV*LFLPP*GF QPF GDTGGFHFSFGVGAFPF GF FNPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFVGACVCVFGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVLSVLANLYFWTISH QV\LE\TRPE\RQECPVCKAGISR EKVVPLYGRGSQEAPRIPRLKT PPPPPRGQR\PAPE\SRGGF\QPF GDTGGFH\FSFGVGAFPF GFTTV F\NAHEPFRRGTGVDLG\QGH P A\SSWQD\SLLLFLAIFFFWLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRAE LLSKDKRVRTDGN KCSPSAIGKRKERGTNDWIEGD NNQESQGLNCSDTLNRDLGPN TRGFLYAGLSGLDPPSLPTPD MSSEVLEDNLDTLNLSYSGKDSD SVKLL E EYADSESQASLQGRSR CWQHHPHAPLSYPPAASGSQLS LQGKFPSAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVLGLL GIPSARPERPGTGSEAGPTRLPG AAVARRRPARPVGRGLGDPAP TAAQTSGPASLPPPPPSYGGDP HQNGYPDPDPAPSASPDLPAA GDTRGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTD LRHPHRRAGRGGPPGGAGGTA NPSTGANGGAATARTAGART RGARGASERAGRHGSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGH PLTDPPNAPVLALPPAIPGLSLS MADGSSDAAREPRPAPAPIRRR SSNYRAYATELQDLRCRLHAR VDKVDEERYDIEAK\VTKNITEI ADLTQKIFDLRGKFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGH PPNAPVLALPPAIPGLSLIMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRRSSNYRAYATEP HAKKKSKISARKLQLKTLLQ IAKQELEREAEERRGEKGRALS TRCQPLELAGLGFAELQDLRCQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRRSSNYRAYATEPHAKKKSKI S\ASRKLQLKTLLQLIAKQELE REAEERRGREGARSLAPRC\QV LELAG\LGFA DLPGLCRCQFHA RVVDKVDEERYDIEAKVSKNITE IAN\LTQKIFDLRSKFKRPTLARR VRISADAMMQALLGARAKESL DLRAHLKQVKKEDPEKENREV GDWRKNIDALSGMEGRMKKW RELSPAYCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

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23111	53479	A	23245	427	1417	KTMWKVEFGVRFSTIRLLLEHQ PKQTMYPILPK/PPLWPEEPKTE APKQTPRAPPKPKTSRPRIPQT QPEETDQSTQEPFTTKIPRTTEL AKTTQGLEMLSLIHNPMMHK DSTNEQIAASLQACYEQLLM YIRVTDVDSVGPNGKEAVTA PQAPTLFWLNHKAQLAKDWA GKDVNITPTFATSKKENKPPNN LQICNVSKIHQRAKVAGKPEIK DKHIQKEMPLDAIEASKINLVKI FNEFLKAWKCRLSFEYRIPENQ GHKGSFYLLVGSSRTSWLLTEK IGSSKRVLRMPMDILKTTQILL SFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFLVKKPPLRKGVYLSK SLSRWFFKVQAN*RSQPQKAFS RLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNKWKNIPCSWLGRINIVK MAIMPKVNL*IQCHPHQATNDF SSQNWKKTTLKFIWEPKKEPAL PSQS*AKRAKLGGITLPDFQTIT YKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRP LLPAPGTPRARERPAWPAPRM EVYIPSFYEEEDLERGYTVFKI EVLMMNGRKHFEVKRYSEFHAL HKKLKKCIKTPEIPSKHVRNWV PKVLEQRRQGLETYLQAVILE NEELPKLFLDFLNVRHLPSPK AESCFSDETESEESSKLSHQPV LLFLRDPYVLPAAADFNPVIE GVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELEFVQCLANPNY LN/WYPQCLHMLELLQYEHFR KELVNAQCAKFIDEQQILHWQ HYSRKRMRLLQQA\AKQQQQN NTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGFRNFARVSGLLLCQAGGVL VSSFVMAAAVAMETDDAGNR LRFQLELEFVQCYANHNTLIFLP QR\GYFKDKAFVNYLKYLLYW \KDPEYAKYLKYPQCLHMLGA APNMEHFRKEAGWNAQCAKF IGWNRQVSTLGKHYSRKRMR LQQALAEQQQQNNTSGK

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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQHHQGI APLHLDA PGPSWTQSRSPRNRA NQNHTCSEAT*SHPEQLPQTLW ECHAPRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	HGQRFLHGVPV/H/HHSHYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPGQNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVVETQDL ASPVLRSVSICTKVEEAFRQAH VIVVLDDSTNKEVFTLEDCLRS RVPLCRLYGYLEKNAHESVRV IVGGRTFVNLKTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPSYIKDVIIWGNISGNNYV DLRKTRVYRYESA IWGPLHYSR PVLNLFIDSEWVKREFVAILKN LTTTGRQFGGILAAHSIATTLKY WYHGSPPGIIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCYSFYVALDCGGVSRL VIFVSWRNPQVAPSAHQNRPS RNPVSRPPNTQRVARRKHYAL ADGYTERRWTNAPCRAESSFPP NCPSAAPIPSYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTVPAAIRYPDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRQYRI HTTSDLPGLVRKYASGCCLRW YCCAWIERALSLQVGGGVFGD PLSEGQAECDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLSLSGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRSFRLRAGSIGNRDKPVAW PDTGSGDNTEVYFRAHQAGILP DTVLAGPAQRVA VSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPR QSRARTNGSGVRILHSLWRIIG IPLLLGYSLVCSRVLACFWPG SDFWPRSRRTYGTAPQSCYSF YVALDCGGVSRLVIFVSWRNP QVAPSAHQNRPSRNPVSRPPN TQRRARRKHYALADGYTERR WTDAPCRAESSFPNCPL*RQY RIHIVDASVCGP
23131	53499	A	23265	968	1440	
23132	53500	A	23266	3	640	LSVVRRIHMGVGVGVGCPVR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRQSRARTNGSG VRILHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRT YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPSAHQNR PRRNPVSRPPNTQRRARRKHYA PADGYTERRWTIAPCRAESSFP PNCPSAAPIPDSYDK
23133	53501	A	23267	1	3140	MVYKMRYRSQHPYSIKEKQMK SEVLSVKEKIGYGMGDAASHII FDNVMLYMMFFYTDFGIPAGF VGTMLFLVARALDAISDPCMGL LADRTRSRWGKFRPWVLFAL PFGIVCVLAYSTPDLSMNGKMI YAAITYTLLTLLYTVVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMMLVNLIGG DNKPLGFQGDLSPMFSTPEEIA RPGPYENDVHVVGASSLAAGH KTLIPELVRSAEQHMGR
23134	53502	A	23268	750	1340	ILHAPAPPFSASASHEQPEWSD KGAQPQPRQSRARTNGSGVR ILHSLWRIIGIPLLLGYSLVCSR VLLACFWPGSDFWPRSRRTYGT APQSCYSFYVALDCGGVSRLV IFVSWRNPQVAPSAHQNRPSR NPVSRPPNTQRRARRKHYALA DGYTERRWTNAPCRAESSFPN CPFAAPIPDSYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQKKLSTDDKGAQPQPR QSRARTNGSGVRILHSLWRII GIPLLLGYSLVCSRVLACFWP GSDFWPRSRRTYGTAPQSCYS FYVALDCGGVSRVRSYLYPGET PRVAPSAHQNRPSRKPG\TRPP NTQRRARRKHYALADGYTER\ SATNAPCRAESSFPPELPVPQVP NTGFIRQVTRDFCVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSDNPPNDKGAQPQPRTQSR SARTNGSGVRILHSLWRIIGIPL LLGYSLVCSRVLACFWPGSDF WPRSRRKTYGTAPQSCYSFYV ALDCGGVSRLVIFVSWRNPQV AP TSAHQNRPSRNPVSRPPNTQ RVARRKHYALADGYTERRWT NAPCRA/VEFPFPNCPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEKDRSSRVSAVLLIK/ HRRPLPLPIGLKACHCSCTAKC LGGCESPRKGGQLLIFEGHVKI DLEIFTKSLWLTRQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIAATEAWSYVCQST NPVDVYPLTAVPACCIISASDVP
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYPFSPRKS RKGMAQSQGWVKRYIKAFCK GFFVAVPVAVTFLDRVACVAR VEGASMQPSLNPGGSQSSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKRVIALEGDIVRFP *DFCMPMPHISCGPQSAGRNV
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSPRKSGRKGMAQSQGW VKRYIKAFCKGFFVAVPVAVTL LDRVACVARVEGASMQPSLNP GGEPV/ASDVLLNHWKVTEF/ SEVHRGDIVFIG\APKNPEQKIIK RVICSLKGDIFQNHRTQKP\DVK VPRGSHLGLEGDHSWDTVFDS NSFGPVSLGLLHAHATHILWPP ERWQKLESVLPPELPGTERRG MTA
23141	53509	A	23275	90	664	NKYRLQSPPRALWDRASDPP APPEDPETAPAMEEDQELERKI SGLKT\SMVEG\ERKTT\LELV\Q AAG\TDRP\CVTFVLHEEDHTLG \NFLRY\MIMKNP/EKVEFCGYT YG/HPSFQRAKLNLPHSRFRGYP FPAVEPISREALNELMNVC\QP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNLT GPYKPLNKTGLVLQMGDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTW LQVAKRAGLGGGQSGRTVLRE RVRIEIASTHIALAVECVSVRV WKVPRLPSRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAIGSAVSNGQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHSTPPKKKR KYIYVLVIAITMVMRFWQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTSEKSNEAADHFKHVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QQQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSYTHMGDFN TPLSTLDRSMRQKVNKNTQEL NSALHQADLIDIYRTLHPKSTEC TFFSAPHHMYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTQNCSTTWKLNLLND YVWHNEMKAEIKMFFETNENK DTTYQNLWDTFKA VCRGKFIA LNAHKRKQERSKIDTLTSQKE LEKQEQTHSKASRRQEITK VRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKKREKNQID AIKNDKGDITDPTETQTTIREY YKHL YANKLENLEEMDKFLDT YTLPRLNQEEVESLNR PITGSGI VAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLFQSIEEEGI LPNSFYEASIIIPKLGRDIKKE NFRPISLMNIDAKILNKILAHRI QQHIKKLIHHDQVGFIPGMQG WFDIRKSINVIQHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLVLVLEVLVRAIRQEKEIKCIQL GKEEVKLSLFADDMIVYVENPI VSAQNLLKLISNFSKVS GYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIKYLGIQLTRHVKD LFKDNYKPALNEIKEDTNKWK NIPCSWIGRINIVKELEKTTLNFI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCEVGGDSGVPKKE FQEGRQVLFKLWRGQANKVG DNSIDSWKNAGR VFKDSDKFD ANDPILKDQTQEWSGSATFTSD GKIRLFYTDYSGKH YGKQSLTT AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRNIS*RSAYVR*RQL YIRRQPYAERPS\HVEDKGHKY LVFEANTGTENGYQGEESLFNK AYYGGGTNFFRKESQKLQQSA KKRDAELANGALGIIELNNDYT LKKVVKPLITSN

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23154	53522	A	23288	849	1688	QQRR*MCQNLMTHTQNPQPSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEPGQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSPRRQE ITKMRAELKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSEFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRVFVHFSVDFECV
23164	53532	A	23298	1	3352	
23165	53533	A	23299	1841	2679	QQR*MCQNLMT\QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPSIHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGQLTV
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFI AFFIAGILFRAIKNHFLPRETLQ CLPYILTGFRRGQSEYFSFSNM DLADTMFL*GAIRFSDLVNEQ IQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRJKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEOTHSKASRRQE ITKIRAELEKIETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQLRSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIRS*KIRRKNGPVLQPLH LTEKSVYSTLTIPTKAINTLYSK PTREQKTDTKAKNLYLTKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DINMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTLTNSHFA VPQAKGNNVVITSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQQQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELRECSRSLRSR CDQLEERVSAMEDEMNMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGKLE NLTLDIIQENFPNLRQANVQIQ EIQRTTPQRYSSRRATPRHIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA

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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLDLQRLDLSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFSSAPHHIYSKIDHILGSK ALLSKCKRTEITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTNIHASKARRQEITK IRAEKKEIETQKTL*KINESRSW FFERINKIDRLRLARLIKKKREKN QIDAIKNDKGDITTDPTIEIQTIR EYCKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIILIPKPRDIT KKENFRPISLMNIDAKILNKKL AKRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPPFML KTLNKLGIKYLGIHLTRDVKDL FKENYKPLLKEIKEDTNKWKN PCSWVGRINIVKMAILPKMCL* RRWTPLCLLTAAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQQQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKA VCRGKFIAL NAHKRK\QER
23185	53553	A	23319	1	2611	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTTFFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSDHS AIKLELRINKNLTQNRSTTWKLN NLLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKA VC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQK\INES RSWFFERINKIDRPLARLIKKKR EKNQIDAINKDKGDITTDPTIEI TTIREYYKHLIYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEDQRYKEELVPFLKLQFQ SIEKEGILPNSFYEASIIIRKPGR DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIHKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTL SKLGIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLNFIVLEVLARAIQ EKEIKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23188	53556	A	23322	191	820	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23189	53557	A	23323	965	5050	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETK\ENK\DTTYQNLWD AFKAVCRGKFIALNAHKRKQE RSKIDTLTSQLKELEKQEQTTHS KASRRQEITKIRAELEIETQKT LQKINESRSWFFERINKIDRPLA RLIKKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23193	53561	A	23327	1	3686	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLSRSCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNLTQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
23194	53562	A	23328	1	3433	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAEKIEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDK
23195	53563	A	23329	1	3070	MEGEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLNDY WVHNKMKAEIKMFFETNEN KDTTYQNLWDA

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRIKKLTEN HTTTWKLNNLLNDYWVDNE MKAIEKMFEEINEKK\DTTSQNL WDTFKA VCRGKLIALNAHKRK QERSKIDTLTSQLKKLEKQEQR NSKASRKQEITKIRAELEKEIETQ KKTLLQKINESRSWFFEKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEGIESLNRPTGSEIEAIIINS PTKKSPGPDGFTAKFYQRYKEE LVYPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKTVH TEGDMNMNIKKIVKQATVLT TTALLAGGATQAFKENNQKA YKETYGVSHITRHDMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQNADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNISDSWKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDIYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRIKKLTQNRSTTWKLNNL LLNDYWVHNEMKAEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKEIETQKTL\QKINE\SR SWFFERINK
23198	53566	A	23332	339	701	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFL*G AIRFSDLVNEQIQHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKKRFLWQ KQGVCEVEIQAQRESARDGTD REDAESPHA EVT VPRGTRTEILT LWASRDRPASACGVTVPKGST THPGGMDRVCGVDTAVLHWM KQVQGISNLEVETGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWQLNRNSACDKLHKPHSV PGGVAAGDVGGKTISNPGVCAI EYQVDGSPHIWEDVNKGVIIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGFRRSNYSELRED
23201	53569	A	23335	1	2374	MVSISDLVICPPRHPKVLGLQGP PGLDSISDPSAGAGFLDWGEIG MPGPGRAGHQALCKCDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCAGRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTIIPPGPTPPQERTC QGDYHSGGTWTHSPLETTRRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPPKAPFPKAE GPSSTPSSAAGPRPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPRKGYSCPECA RVFASPLRLQSHRVSHSDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTPRGPLLAAACNCE VARGRLESPGERLLHGYGGRE EEGGWGRAAGGLDRVEGFIS KAHHYLLIDTQGVPTVLVTRS HRGSQGPVGLQARKVLQLPRV LKGLRVHVHLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHTTLCFCRKRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGIIFQQQSQRSAGLT TTSRFLACQRPLRLCAWWASRS PRCTLRPVGLRPGVHPRPRLV YRDLKPENVMASGQPRDRPQP WFAWPPRPTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRPDLRGCCTEPQPALR MLVLASPCPQPLAFSSVETMEG PPRRTCRSPEPGPSSSIGSPQASS PPRPNHYLLIDTQGVPIYTVAW LDEESQREPGASGAPGQKKCYS CPVCSRVEFYMSYLQRHHRFSH SEVKPFECDCIGK\AFKRSQHL/ SARHHSIHLGGWVGGPACRFG PRRFARDAGELAQHSRVHSGER PVS\STLPSPLYGAETHAETHA VEASHEAGLPGAPGTHRTLQG ALDSCPDTW
23203	53571	A	23337	1	1144	MGHHLMDKLVALLGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVYRKHFANPLSALFLQQGI ELFAAIAEIHITTVAERNHAITQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVRVGATDRGFAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR\ LCRRSRAAPVGRCSVPECPFG HLVDVSGTGTLSQSYQYEVCLT GGSGANEFKFLKVPINLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLKPSVENFYIL ITEGALDREIRAENITITVTDL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTYSLLPP QDPHLPLASLV SINADNGHLFA LRSLDYEALQAFEFVRVGATDRG SPALSREALVRVLVLDANDNL\ PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQAQAEAD LLTVYLVVALASVSSLFLLSVL LFVAVRLC\RRSRAASVGRCSM PEGPFPGRLVD\VSGTGTLFQSY QYEVCLTGGSETGEFKFLKPITP HLPPhRGKIEENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSSDSGSLKGACTEVKMEPAGE RFPEQRQVLILLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPCIMHFQVLLKKPLE VFRAELLVTDINDHSPEFPERE MTLKIPETSSLGTVFPLKKARD LDVGSNNVQNYNISPNSHFHVS TRTRGDGRKYPELVLDTELDRE EQAELRLTLTAVDGGSPPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVLRYPDENFSKNE KPKEEVVEMNSVPKAESPACVP EASSTPASLWSPVSTIPTPRWGR IVYGCAFLLVLLSMLCLVLAH WPKRLFSGELIYIAAAVLLLVI VGFTFTVWRQPQSNTPLYFKPP HISTSQNLSLPEHPMEYLLRTGI EPDVRGVLTVNALPAGPPVACS PLVSISAHVYLMQMMTTETWA QCGVWMLIALECPNLKLLKPP WLHMLPLAMTMYA

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23210	53578	A	23344	3	1762	SVRPGPGHVRVRFFSLSPPLRP PWPLCPAARRTMGSLSRRIAG VEDIDIQANSAYRYPKSGNYF ASHFFMGGEKFDTPHPEGHLFG ENMDLNLFLGSRPSQFPYVTPAP HEPVKTLRSLVNIRKDSLRLVR YKDDADSPTEDGDKPRVLYSL EFTFDADARVAITIYCQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIYGIENKNNQETKPSDDENS DNSNECVCLSDLRDTLILPCR HLCLCTSCADTLRYQANNCPI RLPFRALLQIRAVRKKPGALSP VSFSPVLAQSLEHDEHSCPFKK SKPHPASLASKKPKRETNDSV PPGYEPISLLEALNGLRAVSPAI PSAPLYEEITYSGISDGLSQASC PLAAIDHILDSSRQKGRPQSKAP DSTLRSPSSIHEEDEEKLSE DAPPPPLGGAELALRESSPESFI TEEVDESSSPQOGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLFP WSPGSSSRGLFPWSPGSSSRGLF PWSPGSSSRGLFPWSPGSSSRGL FPWSPGSSSRGLFPWSPGGSSR GSSRGHPGPPPGSSRGHPGPPP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGS SSRGLFPWSPGSSSRGSSRGHPG PPPGALPVVTRVLLPGLFPWSP GSSSR/RTLPPVTRLLLSGTLPV VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRS KPLGLTRAPARCGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPCGPSSRARAISSPRAS/L RMSQRELGLWDPNNFEFPVAL QEMDTSNGLVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGLDVSKEIARFYKLH ERKCEPIIMTVPRKSDLFQDDL YPDTPGPEPALEADEWLSGQD AEPVLISLRDGYVPPKHREL RV TKRNILDVRPPSGPRRSQSASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQQHTLETLLLEEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVCADCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTEIESISQGVGQIQLKGDI LPNPCHTPKKNSIHELLLERAQT PENKPGHMEQDEDSCTAQPEL AKDSGMCNPEGCLTTHSSIADL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGKSDEAPPEH SFVLKEPEMSKGGKYSSEA GSLSHSEQNATVPAPRVLEFDH LPDPQEGPGPEASNGLKVSQKS EGSQPSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMALLGPKLNSR RPHLHPVSHTLDLGNPPLPQQ FAKCQRGRKGPEGKYPLHYLV WHNRHRELEKEVRAGQTLITQ TLSQANPTAITAEYFNPNFELG NRDMGRPMELTTKTQKFKAKL WLCEEHPLSLCEQVAPIIDLMA VSNALFAKLRFITLQIPFHLN ARITFGNLNGCDEPVPSVRGSPS SETPSPGSDSSSVSSSSSTSEAPR ENACPSALPGVASCRGCEISPAL FEAPRGYSMMGGQREAA TRDD DDDLLQFAIQSLLEAGSEYDQ VTIWEALTNSKPGTHPMSYE/R SPTGQGQVPAATCSG/R YDEQL RLAMELSAQEQEERRRRARQE EEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSDLMAEIIQERIEDRLPELEQL ERIGLFSHAEIKAIKKASDLEY KIQRRTLFKEDFINYVQRIGYSF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRLSKVFSAMLAHNSNKPAL WIMAAKWEMEDRLSSESARQL FLRALRFHPECPKLYKEYFRM ELMHAGKTGGRRRNKLNKKPV WMWRILIILKKSRLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLLNPKSEMTPEE\ REEEEFNTGPLSVLTQSVKNNT QVLINCRNNKLLGRVKAQFDR HCNMVLE\NVKEMLTEG/DRYI SKMFL\AGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPKCWDYRSLFNKP\KS EMTP\EELQKREE\EEFNT\GTP LCLTQSVKNNTQSAQSTC\RNN KKLPGAA*RPFDRASPPCSPPGT CNMVL\ENVK\EMWT*GTQEV GKGKEGSSKPVNKDRLTSSKM FPGGGGFSSFVPCGNPFHSAG QIRGPPVLFDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKKVWLDPNET\NEIA NANFRSADPGRLIKDGLIRKPV T\VHSRARLPEKTPLARCKGHG TLGIGKRKGTANA\RMPKEGHH GMRRMRILAPACSRRYRESKKI D\RHMYHSLYLKVKG\NVFKNK ADFSWEHIHKAEGRARPRKEAS WLDQAEA\RRSKDQKGKHKRR EERLPGQRKEEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRGLGTPRLQLWLLL LEFWGVGSQLHYSVSEEAKH GTFVGRIAQDLGLELAELVQRL FRVASKTHGDLLEVNLQNGILF VNSRIDREELCGQSAECSIHLEV IVDRPLQVFHVNVVKDINDNP PVFSLREQKLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPTNGKQIKRLSLILKK SLDREKTPELNLLLTATDGGKP ELTGTVRLLVQVLDVNDNDPE FDKSEYKVSLMEN

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23226	53594	A	23360	194	931	NSPVVPVMASGQFVNKLQEEVI CPICLDILQKPVITDCGHNFPCQ CITQIGETSCGFFKCPLCKTSVR\ RDAIRFNSAVAEIWWEKIQALQ ASEVQSKRK\EA\CPRHQEMF HYFCEDDGKFLCFVCRESKDH KSHNVSLIEEAAQNYQGQIQEQ IQVLQQKEKETVQVKAQGVHR VDVFTDQVEHEKQRI\TEFELL HQVLEEEKNFLLSRIYWLGHEG TEAGKHYYVEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSQCWDP\CPPSQ VVCLAGLPP*RVCQNPVKGP\N CPLAHTSEPTGHCLL*TRGMCF PSLCGQLCP*SGPPDCPSPRALH HTGFCPVALLVAESQVRARAC GPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQTHGTGNHSERGRQPITRSPEKP EP\CPSKRAPQTQQP\PWAPSLC PPALGPCKGTRRPRVQVHRPTS SQKCPLPAWFHHLPLWPTSAAR SSSTETPTGQQMRKLRHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTP SSQPGMSLDSLDRHPP*TRETAS GIGGQRP GSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTTRVLIMKGAGHPCYLDK PEEWHTGLLDLFLQGLQLWLMH MQQLMSLAVVSGRLSRGQCGT ERPSRRAAAAAAGQPQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVVAVAPA SPDRMSGSDGGLEEEPELSITLT LRMLMHGKEVGSIIKKGETV KRIREQSSARITISEGSCPERITI TGSTAAVFHAVSMIAFKLDEDL CAAPANGGNVSRPPVTLRLVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLLPNSTERA VTVS GVPDAIILCVRQICAVILEGFSV QGQYGAVTPAEVTKLQQLSSH AVPFATPSVVPGLDPGTQTSSQ EFLVPNDVSRGWDGWRLIGCVI GRQGTKINEIRQMSGAHIKIGN QAE GAGERHVITITGSPVSIALA QYLITACLETAKSTSGGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAAGLGGLHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKGPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRPHSPSPWP/P/YYTP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGGGLGHAQCWGQEF CPTQCP
23236	53604	A	23370	38	680	GSRLRRLQAAAARPALPLPLPP WEWKHLPHVPEAKWWLTAR HSAAYRADPLRVSSRDKLTEM AASSQGNFEGNFESLDLAEFAK KQPWWRKLFQGQESGPSAEKYS VATQLFIGGVGTGWCTGFIFQKV GKLAATAVGGGGFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNQIPTEVRSKAEEVVSF VKKNVLVTGGFFGGFLLGMAS
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVWRFVQDHFHDH NISPTIGVASFMTKTVP\WENDFT KFLIWDTAGQERFSFIGLPLYYS RLQLAAVYSCYGYLPSRDFIFIT LKE\W\VKRLKELGPE\NIVMAI AGNKCDLSD\REVPPPEGMLKE Y\AESIGAIVVETSAKNAIN\EE LFQGIS\RQIPPLDPPMKNGKQW DHQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQGQKVQKVMV QPINLIFRYLQNRSRIVWLVEQ VNMRIEGCIIGFDEYMNVLVDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPVQKSAEGLWCQPICRT SSSRYL\QNRJAGFQVWLVEQV NMRIEGCIIGFDEYVNLVDD AEEIHSKTKSRK\QLGRIMLK\G DNITLLQTCLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHHIIKPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFPPCLSPVVAGWARGHMLG QSHQQVAAPLKHRTPTLCLCQ KCLSLIKKTKFLNAYITVSEEA LKHAEESEKRYKNGQSLGDL GIPIAEKDNFSTSGIETTCASNM LKGYPYPYNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTDGV FGPVKNPWSYSK
23245	53613	A	23379	255	1042	ILAAARMGKQNSKLRPEVMQDL LESTDFTEHEIQEWYKGFLRDC PSGHLSMEEFKKIYGNFFPYG\D ASKFAEH\VFRTFDANGDG\TID FREFIIALSVTSRGKLEQKLKW AFSMYDLGNGYISKAEMLEIV QAIYKMVSSVMKMPPEDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFVQRASVSFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKLSEEFIR GAKSDPSIVRLLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPGLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLKLRLCIDGFRSHSLPEEGP KKPCQHHAQQEEPCTRSGRLPQ AHEGSISDCCTSSEQGSMDIGSV EPGTGYNLLVCHLL/STLEKRSI WAGVSRFSRYHLSRLPLARK\G NPLTPCASQLLLPLPSTTQKRQS GHALYSFPYRPQPKNDNLVMP
23247	53615	A	23381	80	562	DRAMWGDWLWLLPPASANPGT GTEAEFEKAAEEVRHLKT/RSPS DEEMLFYGHYKQATVGDINTE RPGMLDFVTGKA\KWD\AWNEL KGTSKGDVEA\YLNQV\EELK KKYGDMERLDLVTVPVYPKP ETIPFFFSNTVDGWFEFNNPV KPATQRLLTHTGS
23248	53616	A	23382	380	1041	EVTINSGFIFIMLFMEHPEHYTI MHKWILTWILPTLLYRSCFHIIC LVGTISLACND\MTPEQMATNV NCSSPERHTRSVDYMEGGDIRV RRLFCRTQWYLRLDKRGKVKG TQEMKNNYNIMEIRTVAVGIVA IKGVESEFYLAMNKEGKL\YA KKECN\ED\CNFKELILENHNT YASAKL\WTHNGGEMFVALNQ KGIPVRGKKTKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKKAAAEDVNVTF EDQ\QKINKFARNTSRITELKEEI EVKK\KQLQNL\EDACDDIMLA DDD\CL\MIPY\QLGDVFISHSQE ETQEMLEEAKKNLQEEIDALES RVESIQRVLADLKVQLYAKFG SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMKEITYG PIFTVFAMGNRMFTVTEEEGIN VFLKSKKVDFELAVQNIVYRTA SIPKNVFLALHEKLYIMLKGKM GTVNLHQFTGQLTEELHEQLEN LGTHGTMDLNNLVRHLLYPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQLECLLRN WSKSKKWFLELFEKNIPDIKAC KSAKDNSMDSDEDPVNLQSRS ALVCEMLHVQRSSSDADAIGPH ADHLSNRWEVILADEHGHIAD DMISRYALSEKSQVELSTQVIKS ASSKSVNKSDIDTSVFLNWYNP EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRRNCIPCPYIGDPCIVRYREDG HYYRALITNICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYEIITEDVLEITILEIRR DVCDIPLAIVDLKSKGKSINEK MEKYSKTGIKSALPYENIDSEIK QTLGSYNLDVGLKKLSNKAQV NKIYMEQQTDELAITEKDVNII GTKPSNFRDPKTDNICEGFENP CKDKIDTEELEGVSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADCDPKTQNMNICEEEF VEYKNRDAISALMPFSLRKA VMEASTIMVYQIISQLNYRTPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRRCL CLLSPTSFDFSLLYESQSDRAIF GVGTEPDQEPPEPYHEQVPVSV YHPT\PSQTWVATQLTEEEQIRI AQRIGLIQHLPKGVY\DPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDAALLSSYETN
23252	53620	A	23386	33	512	TAARCQGGPTHVPAFVGTACP TRIPGHAPARQCREYYY*YYVD F/WKEPRRCHALLPPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQG\PSNRQRTDGCRWCSGR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVGLGRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	

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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRESVEYSHQ KSELPLSGDSQVPGPIGCNCDP QGSVSSQCDAAGQCQCKAQVE GLTCSHCRPHHFHLSASNPDC LPCFCMGITQQCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGEFTVEPVPEGAQLSFGNF AQLGHESFYWQLPETYQGDKG EAYFARMRRAHQNRSLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLLPGLYYWQ LPRAFLGDKVAAYGGKLRITL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQGPSNRPRALEVEEC RCPPGYIGLSCQDCAPGYTRTG SGLYLGHCELCNCHSDLCHP ETGACSQCHNAAGEFCELCA PGYYGDATAAGTPEDCQPCAC LTNPENMFSTRCESLGAGGYRC TACEPGYTGGYCEQCGPGYVG NPSVQGGQCLPESELHFPSVQ PSDAGVYICTCRNLHQSNTSRA ELLVTEAPSKPITVTVEEQRSS VRPGADVTICTAKSKSPAYTL VWTRLHNGKLPTRAMDFNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGRLRAARSGRRGASERESG AGRAMGWRAPGALLALLH GRLLAVTHGLRAYDGLSLPEDI ETVTASQMRWTHSYLSDDEYM LADISGDDLGSDDLGSDFQM VYFRALVNFTRISIEYSPQLEDA GSREFREVSEAVVDLTLESEYTKI PGDQVVSVVFIEKLDGWVFE LDVGSEGNADGAQIQEMLLRVI SSGSVASVYTSPQGFQFRRIGT VPQFPRACTEAEFACHSYNECV ALEYRCRRPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLPSLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA\GGSGSRMSVSHSTSLRDG ISSGGLA/TGMARGLGGMGGIQ NKKETTQSLNDSLAVRVRLET ENRKLESKIREHLEKKGPQVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMCKNHGEEVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIEESTTEVTMQSAKV RAAEMTFMELRRTVQSLEIDL LMRNPKASLENSLREVEACYA LQMEQLNLDL/GILLHLESELTQ TRAEGQL\QAQKYKALLNIKNK LEAEIATYCLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	
23259	53627	A	23393	732	1656	SCSWTSPAAWPPNASLHSLCKR RNQDHLLLDWRFLDFPSSMA SKCQSPLLPQKKKPRPLPALGP EKTSASAGLPKKGEKEQETIE HIHEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDDEALHYL\TRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYK DLMKRSSQTQNKAKRKRQHEE PESFFTWF\TDHSDVGADELGEV IKDIWP\NPLQYYLVPMDMNEEG EGEEDDDDEEEGLEDEEG DEDEGEDEDEGEKGEDEGE
23260	53628	A	23394	3	923	ARRLVVWF\WDFPNSMAPKRQS PLPPQKKKPRPPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLRQPFFQKRSK\LSAGIPNFWV TTFVN\HPQVSALLGEEDEEAL\ HYL\TRVEVTEFEDIKSGYRIDF YFDENPYFENKVL\KEFHLNE\S GDPSSKSTEIKW\SGKDLTKRS SQTQNKASRKRQHEEPESFTW FTDHSDAGADELGEVIKDDIWP NPLQYYLVPMDMDEEGEGEED DDDEEEGLEDEEGDEDEGE EEDEDDDEGEEGEEDGEDD

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23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSLKR RNQDHLLLDWRFLDFPSSMA SKCQSPLLPQKKKPRPLALGP EKTSASAGLPKKGEKEQETIE HIHEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKY GK DLMKRSSQTQNK AHRKRQHEE PESFFTWFTHSDVGADDELGEV IKDIWP NPLQYYLVPMDNNEEG EGEEDDDDDDEEEGLEIDEEG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFWD FPN SMAPKRQS PLPPQKKKPRPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLARQPFFQKRSKLSAGIPNFW VTTFVNHPQVSALLGEDEEA LHYLTRVEVTEFEDIKSGYRID FYFDENPYFENKVLSEFHLNE SGDPSSKSTEIKWKS GDLTKR SSQTQNKASRK RQHEEPESFFT WFTDHS DAGADELGEVIKDDI WP NPLQYYLVPMD DDEEGEGE EDDDDDDEEEGLEIDEEGDED EGEEDDDDEGEEGEEDGED
23263	53631	A	23397	1	1393	MGKQKGGGPQAWAEGLGRE WMRMPQEGKGSQRKSTQKQT KREIDAYIVQAKERSYETVLSF GKRGLNIAASPAVQAATKVLW APSPPAAPIPPLRPGLIQLLCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPLLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSLDNMGV NSGSVPFHGVRIQASQLISLNF FSFCEADLKTPLHGFLLPAGPK EEVTVKKEKRERDRDRQREGH GRGRGRPEVIQSHSIFEQGP AE MMKKKGNWDKTV DVS DMGPS HIINIKKEKRETDEETKQILRML EKDDVDH HALSEHLVTTATFSI GSTGLVVYDYQQVECGGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQSDTEDECWS DTEAVPRAPARPREKPLIRSQSL RVVKRKPPVREGTSRSLKVRTR KKTVP S D V D S
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQQI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IIRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLPNPIILLSPLLTPVPAYS FIL/PTSPPPPARQFPLKKVAEAK GIVKQLKTDARSPTKPTGPSQ TLWVTLTVEDLKHAFFTIPLHP SSQPLFAFTWTDPDTHQAQQIT RAVLPQVFTDSPHYFSQAQISSS SVTYLGIIILIKTHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTLALRHESGCEL VWAEKHRNQIFPPKSTASPKQ WDTGRHNSDAKQQEPGGREER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSIIHP RFKGVRRRDACLGPSPLAASP AFLGKGQHALKGLKPVITRLLQ HGLLKPINSPPFS\PILPVLPKPK AYKLVQNLRLINQIVLPIHPVVP NPYTLSSIPPSTTHYSVLDLKH AFFTIPLHPSSQPLFAFT*TDPD H*AAQITWAVLPQGFTRQPPLL QLSPNFILICYLSRHNSHKNTRA LPADRV
23277	53645	A	23411	1	930	MIQEHADKQVQRLQGVLLGSIP TAASRARLHPGEINNHHVAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPPLPALCSLRRHILRPQ VLRSTSPRNISPISNPGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRQYPIQQALKG LMPAITRLLQHGLLKPINSPYHS PILPVLPKPKPYKLVQDLRLINQ IVLPIHPMVPNPYTLSSIPASTT HYSV\LYVKHAFFTIPLHPSSQP LSTFTWTDPDTHQAQQIT*AVL PQVFTDSPHYFSQAQISSSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVPNPYTLT SIPPSTTHYSVLDLKPFAFTIPLR LSFQPLFTFSWTDPDTHQAQQI TRAVLPQSFTDSPHYFSQAQIS* RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVPNPYTLT SIPPSTTHYSVLDLKPFAFTIPLR LSFQPLFTFSWTDPDTHQAQQI TRAVLPQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLT GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSVFLLLSPYQGQPQVSRRC S/RQVSQRCPHRGRGPRCPQVS RSHGPSWVGHPGMPLYGSIEQF YCGAPGLAGPPNGSRGESLKIS VWIFPCRDFGNFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFYYGHPDRDARVPRIV AEAKEKNLTPGKIIEVDVTIEAQ IRQEFLLDAERDTGGFVKFFRITK KKLQEFFLGEEEEQVPHVSPVE LGAKPTAFNAFIANA VGKTLAV QHASLKAPEPEMTV THERFYG NYAVWITDVDPNRHRIEVIHVI REISGRTSEYVNNLLAQPTPFK VFDWLTETQAKEFVRRLNNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASTKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWVWQWNHRISVLFHSN SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTKGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYDPNV KRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAINKW NGLVPFITSSPGMGKSAIVRQIA EDFGLKLIDHRLSTSAPEDLSGL PRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKA TDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFVQFTQVYSNMVSL NEILDNPKKARMPEDNNLLWA VVTSLINNTDEDNHSKIFDYVE RMPFTFKVLYYRSRKTDMSMT DAQLTREYDRCQAKAFMGKTA AFFGSLLC SLKFRWVKDGC DT AQTDGEHLEWNPWFESLLPE SRVTVLMHELWHVGLLH SVR MGSRDPEVWNYACDIYINNQLI QDGYSGFIENCWKDPKYAGW AEEQIYHDLMSKHPRPPKASGA FGTGSGGDMKPSTSKASLKL SG GSLPGVLP GKMEEVITQFLKPV VPWQVLLERFFNDLQETYYSW QRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDGQSVSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRFDNTFETYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHLIFTGA QSGEDIVPFQLEDGHS LG EVVL LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCS DNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPYNSGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYNSGC*NSGC ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYLRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPQGKRKLLLKRCSRLLP KN*CQHSKQHKLSISSVVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFPTKLGCIKAMK VVSPLIHNSIVILLNQITIDFFSTL AQICTFICLTYSKQTTTRIASFK KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSI AVCNPRQVRKFVEHC IRSGLV PFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDRMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSR LIHLEMETDFDFVME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHIF FRDRYGTKQRELLHILLAYEEY NPEVGYCRDLSHIAALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLQDQQEHVVA TSQPKTMGHQDKKDLCGQCSP LGCLIRILIDGISLGLTLR\LWDV YLVEGEQAFMPITRIAFKVQQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVNDHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI

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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPELTRLLQQSQDPLLMLGLFP TNPKEKTQEPPGQSRAVLT VSKFKVLAGLLHLGNIQFAASE DEAQCQPMDDAKCEGQGVG WAGPVRKASLEQLLQVLHSTT PHYIRCIPNSQQGAQTFLQEE AGAGRRRQRRRQKQQRRRRQ LGGGGDGGNGSVGDDGATRG RGCALKECVATPRRGLLFSRP HKLAFVGGSVTSVGPKPAP MDVVEVAGSWWAQEREDIM KYEKGHRAGLPEDKGPKPFRS YNNNVDDLGLVQDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFLPPPSMS KQAKKTGVPSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLIGLQLILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGKRSSEHIQRIDRDISGTLR KHMFFRDYGTQRELLHILLA YEEYNPEVGycMDLSHIAALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHERADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQKRLTKTSRCGPW ARFCNRFVDTWARDEDTVLKH LRASMKKLTRKQGDLPAPAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLLPLLILCTVS VASYELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQKPG QAPVLVIYKDSERPSGIPERFSG SSSGTTVTLTISGAQVEDEADY YCYSAADNNGWVFGGGVTKLT VLSQPKAAPSVTLFPPSSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAAED LEKTSNENLKLKGKFTHSRTQIKG VSQNINYTTVALLPILTSIFEHV TQHQFGMDLLLDGVQISCYHIL CSLYSLGTGKNIVVEILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRRWRTTRTKRRRRKSAA AVSARAAAGGSRGAGGWGT ADASGAMAEGGEGGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAAEGLGNRLCFLEPTSEAKYIP PDLVCNCFVLEQSLSVRALQEM LANTGENGGEGAAQGGGHRTL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILVSVSSERYLHLSVSNNGNI QVDASFMQTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSPAPARSPTRRQS TRRRSGATTSCSQRLWATWNG CD/VCLNQLSREIPTDDKGFTAI HFAAQWGKLACLQVLVEEYKF PVDLLTNNSQTPLHLVIHRDNT TVALPCIYYLLEKGADLNAQTC NGSTPLHLAARDGLLDCVKVL VQSGANVHAQDAMGYKPIDFC KIWNHRACARFLKDAMWKKD KKDFAREMTKMKMFKSQLTL MEHNYLIEYQKEHKILREAAIR KWLHGKLLHPGHSLSVNTKQAR ATALSKTPEQRESQRSRSFHPV DARLQCIPQPTMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFWGHAPGPLLLLLLLV LPPRALPEGPLVFVALVFRHGD RAPLASYPMDPHKEVASTLWP RGLGQLTTEGVRRQLELGRFLR SRYEAFLSPEYRREEVYIRSTDF DRTLESAQANLAGLFPEAAPGS PEARWRPIPVHTVPVAEDKLLR FPMRSCPRYHELLREATEAAEY QEALGWTGFLSRLENFTGLSL VGEPLRRAWKVLDTLMCQQA HGLPLPAWASPDVLRTLAQISA LDIGAHVGPPRAAEKAQLTGGI LLNAILANFSRVQRLGLPLKMV MYSAHSTLLALQGALGLYDG HTPPYAACLGFEFKHLGNPAK DGGNVTVSLFYRNDSAHLPLPL SLPGCPAP\CPLGRFYQLTAPAR PPAHGVTCHGPYEAIPAPVV PLLAGAVAVLVALSGLGLLA WRPGCLRALGGPV

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23340	53708	A	23474	133	672	AVGWESGKWDSGRGQGGGQE QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGGVAI STVPATIKTRRQEVSPELPRP/PG PAPPPGPDVRPWLLRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSGWGQGGGQE QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGGVAI STVPATKKTRRQEVSPELPRP/P GPAPPPGPDVRPWLLGPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRGLHVSVPDGPQQGLRE AKLGTMVRLVLLPTPRRTTEVR TGPERSLMVLEAILGSLLTAC DHRQTPSSKPQA/GSSRLREGT SAGQPCS/LRLRLGPRAGGRR CRDIERSSSSSVCGRKCKRKKR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTPGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRFRVRACVAGGSHCLFNS CCCCTASLPARERHEWPGPAA AAAAAAAAAARRSQTQREGLFA GWGGGFAMSDDDSRASTSSSSS SSSNQQTEKETNTPKKKESKVS MSKNSKLL\SPRAKGIQKEL\AD ITLDPPPNCSAGPKGDNIYWR STILGPPGSVYEGGVFFLDITFTP EYPFKPPKVTFRTRIYHCNINSQ \GVICLDILKDNWSPALTISKVL LSICSLTDCNPADPLVGSIA TQYMTNRAEHDRMARQWTKRYA T

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRGSYCEHYRS/R K/HKQRRSRWSSSSDRTRRRR REDSYHVRRRCSTRFSRSSSQH SSRKAKSVEDDTEGHLYHVGD WLQERYEIVSTLGKGTfGRVV QCVDHRRRGARVALKIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDWFDYHGHMCISL ELLGLSTFDLKDNNHLPYPIH QVHHMASQLCQAVKFLHDNK LTHTDLKPENILFVNSDYELTY NLEKKRHERSVKSTAVRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGWSQPCDVWSIGCIIFE YYVGFTLFQTHDNRQHLATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYLTSEAEEDHQLFDLIESML EYEPAQRLTLGEALQHPFFSRL WAEPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYGPQHLRLD NFVFNDRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCWVLQCVGFIH LVIEGLVPFSNYERPCFGDQSL NLKLWKEYGQGETARLHPGG DKFHSVALGTITSFA\WGEPFSL WVVI\FLLQHPLRFIL\QLVVS VG\QIYG\DV\FYFLKEHPRRDS KHGKPGPTPLLLPGFSFVFHEM PLWLVPAPGSPLCLDA\VKAPS THAPEHAWNAKGPKPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPRDLLNGFDQNADS DMDNEVQAEVVTGDEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELERDDLGYLAEEISS EAFKSVSYEKAAHWNPLESTC RHASLALAVVLQRRDWENPVG VTQL\NRLAAHPPFASWRNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDFLG YQWAPI LANFVHIIIVILGLFGTIQYRPRY ITGILSFPHKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFFLKDKKRKKQQPQQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLRLVHRSKELRFRNC CLDFRGCMEMPGCPGRGVLQA QNPRGEPLLGQCRREMC GGSP YIVPTGALPSGAVRRRPPSSRP HNGRPTDSLHCVPKGAA DTQH QPLKAARRAAVPCKATGSELPK
23348	53716	A	23482	3	732	SPLTPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAGVAGIPNSGPD TVEGPYNL CGRQGRWGGLIISLASEMKLQT LQTSVTTAKATLLELFVPLGGL VASLASEVRLQIFPRGGHLQSA KCGLLLHFSLP TSRSRRKANR PMAVTVLLVLIRDCADLLAVK AVIH CYQDQWPLRGSSRPANTP PPKASVSRPPGHRGVRRGSPL LQVGARRVGAEAPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGKEWLELEEDAQKAYI MGLLDRLEVVSRRRLKVARA VLYLAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMRFGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEEGEGGGEAGGKEPAADAA PGPSAAFRMLMVTRREPAVKLQ YAVSGLEPLAWSEDHRVSVST ARSI AVL ELICDVHNP GQDLVIH RTSV P AP LN SCL LKVGSKTEVA ECKE KFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNRLQWVQLVDL TEIYG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVRMEWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNI AVWQFQLPFVGKES ISSCNTIESGITSPSVLFWWEYE HNNRKM SGLIVGSAFGPIKILPV NLKAVKGYFTLRQPVILWKEM DQLPVHSIKCVPLYHPYQKCSC SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMTAD KQNGTVYTCSSDGKVRQVIPIF TDVALKFEHQLIKLSDVFGSVR THGIAVKPCGAYLAIITTEGMIN GLHPVNKNYQVQFVTLKTFEE AAAQLLESSVQNLFKQVDLIDL VRWKILKDKHIPQFLQEALEKK IESSGVTYFWRFKLFLLRILYQS MQKTPSEALWKPTHEDESKILLV DSPG\MGNADDEQEEGTSSKQ VVKQGLQERSKEGDVEEPTD\D SLPTTG\DAG\GREPMGRNSW GNSK GKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQVRSPTPLHLAAQACSL ETTVCLLCSKADYTLSEKRGW MPIHF AAFYDNVCIIALCRKDP SLLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFKLLLIGDSGVG KTCVL\FRFSEDAFNSTFIFTIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFDNIRNWIRNTEEHAS ADVEKMILGNKCDVNDKRQVS KGS/GENKLALDYGIKFMETSA KANINVENAFFTLARDIKAKMD KKLDGNSPIQGSNQG VKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MVFYHVGQAGLELLTSGPHCP DSQAADKAESATLLSRARLGA YCACASLERRWPHFPGREC MAKTYDYLFKLLL\IGDSGVGK TCVLF RFSEDAFNSTFISTIGIDF KIRTIELDGKRIK\LQIWDTAGQ ERFRTDHNRP TYRGAMGI\ML VYDITNE\KSF\DNIRN\W\RNIE EHASAD\VEK\MILGNKCDVND KRQVSKERGEKLALD\YGIKFM ETSAKANINVENAFTLARDIK AKMDKKLGPARPHGTLLGKGE EFAGVAGASASGSASLGTLPKQ TRPCPVNPQASREHTAFSIPKQ QKDNMEGNSPQGSNQG VKITP DQQKRSSFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHH\FMELC\WD KCVEKPQGIALDSRTENCL\SC \VDRFID\TLAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VIYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQQS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMGTSSPTPS LAPEHSSRASLEPSSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPA WRAW\SSSSKAS/WLPDA AGPPTPPWSGPSPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWCS*VSTVANLPP GISKWGANWQRCCEMKE*CWSP AVTWCITCAQRSG/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLNPTARHYL PVLVYLRAILWARTPLPIPGRRT VSKVKMKKRILRAMRQKQQVL PLLVLGLGLDELSMSAPSIPAAK ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAECITLES DWSKEEV LK GMTDNL LLAGRCRYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLT LNKHAAGDQHM RIFSR LARRIMHEEF RNALVNA ASADA IASLLNMNWT VKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRRGHRRAGT/CNQ I*KGCCCCVRTKQPLSSVLISPNF CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLLLPLQILLLSL ALETAGEEAQGDKIIDGAPCAR GSHPWQVALLSGNQLHCGGVL VNERWVLTAAHCKMNEYTVH LGSDTL/E/ADRKAQRIKPSKSF RHPGYFTQTHVNDLMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSYFLDFFEEYIVIAFKI LRRGPDISCSQIINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLAND LMLIKLDES VSESDTIRSISIASQ CPTAGNSCLVSGWGLLANDPT SRLPPPLECRNPVPQLLLPPEKP RTAPDTLGSSPVPKSR TGSSGSS FLLPAPPSPFPRPHHGTPPTSCG QDVDVPALAGGSLGSPAGEAL PRLAAPERLSRHHGKIPSPAPAD LTAILALETAGEEVPFPLTSCA WMSSSSPPGLHEGLQGLTGKFH AVRWHPR LQEKRLQSVSPDSR IPGARRPAAR
23371	53739	A	23506	303	393	

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23372	53740	A	23507	391	1170	GSFFFFFFKYFAYSPMPKNSKVV KREDDDDVTESVKDLLSNEDA ADDAFKTSELIVDGQEEKDTDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFYLCQK NGGVVEPECEQSSATYYWYR EALNISSSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV N'TYDRVTMSATVLAALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQLRVCDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23373	53741	A	23508	45	546	EGGGSRSLSWRELIGQPVSFIE PVAAGGAVALNVQ/RSCGVVS AAPACL*SRPHSWRWGGPACW RTPGG/LASRSSSSASILMSSSRA SFTRSLSLSTHKDQGLVCSGSS GATGAGSC/LWPPTSHTVKLMF LYSTVSTLKPMVGMVVTISPSL SL*RIVVFPAASRPT/YEDAHFFF CQKGP*RGSWSSLQHPGPP
23374	53742	A	23509	1367	2142	VRRPQGCLGKRSLLSRVCALVP WGIWP/WSLAVGPQYSSLGSQP ILCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRGGWLPELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQGSPPGKWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNEAGRQV GSPPARVLGKKEPPQQGVCPGS LGHMARSLAVGPQYSSLGSQPI LCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRGGWLPELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQGSPPGKWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNEAGRQ

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQ\APRARGPAIHHPGP/RGCT ALPRQGPPTPGSARAPPRIPAHR APTSPTLNFCLASSRQSMPPAPR PPPVPATNPVTPGCGRPPPTLGC RNPQTLRPPPGLPSPALLRRPLP PPARVGMPPHQPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPSASGPP**DLISALWTPS QPRAPTRQSLNSLSSSAPSSSTIG PSPSPAPGPAPPLPWLPSPSSL PRLSQVSRRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFNLNTSLTTTSTHVES FGGQLRGSQIGHPRRPNKMPYA WSIPQDPPLKPERDPGGPLGVS LSLPVNQYGESEEPMGDDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDEFYDE DMGDGGGGSYRSRDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCINGDDCMFSDPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLTK VPPSSLVQERSFFVRMKSTLTK RGLHVKASGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCETHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAPGTPFSIGRAARRLS DASGLLDKGQVMTGYRWLQ RAGGFVWLQSVATVAGSGKSP GEHHVLWVSHVLSQAEGCQTP LDAFQLPASVACEEASSPGPEPT EPEPTEGKQAAPAENEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHPATPRPEFTSVIRAGVLK QDPVRPWGLAPPDPPPTLLHA GFLPPVVRGLCTPGTIRYGPAEL GLVYPHLQRLGPGPALPEAFYP PLGLPYPGPAGTRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSLFHINHGPNPFNMEVL VDSWPEYQMVIIRPQ/ETVRGE EKVQGNDLTFHHPTQEMTDDM DSYTNVYRVFSKDPQKSQEV KNSEIINWKQKLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKS KLGSWAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTMDPSCEIGMGYSVEKYRR RGNGTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCYPQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPPTHQADC*SPC GAQGGWVTLAVASASS*AHTA SPLPRSPQAQGRAPSPAPPQIHL TTPSSFSSQGT/SHGGLGSTPGA DDPNTSSS\PPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SPFCWPSSGQRSFHGIASG WEPDGIPDGSSRWEPCGKPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAAMSPAAAAAG AGERRRPIASVRDGRGRGCGGP AGAALLGLSLVGLLLYLVPAA AALAWLAVGTAAWWGLSRE PRGSRPLSSFVQKARHRRTLFA SPPAKSTANGNLLPRTLLEGP DPAELLLMGSYLGKPGPPQAP APEGQDLRNRPGRRPPARPAPR STPPSPPTH RVHHFYPSLPTPLL RPSGRPSPRDRGTLPDRFVITPR RRYPIHQTQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

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23384	53752	A	23519	3	507	SFRAATMVRMNVLADALKSIN NAEKRGRQVLIRPCSKVIVRF LTVMMKHGYIGEFEIIDDHRAG KIVVNLTGRLNKVGVQWRDLG YCNLCPLPGSSDSSASASLVAEIT \\CGVISPRFDVQLKDLEKWQNN LLPSRQFGFIVLTTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVFYLIQSVIFCR LALAEFEIIDDPQSLGKLL*TLT GRLKQ/CLGVISPRFDVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVIHIFT
23386	53754	A	23521	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDL/PPY ENGKWQNNLLPSRQFGFIVLT SAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAGKIVVNLT GGLNKCGVISLRFDVQLKDLEK WQNNLLPSCQFGFIALTTSAGI MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFRAATMVRMNVLADAL KSINNAEKRGRQVLIRPCSKVI VRFLTVMMKHGYIGEFEIIDDH RAGKIVVNLTGRLNKVGVQWR DLGYCNLCPLPGSSDSSASASLV AEIT\\CGVISPRFDVQLKDLEK\\ WQNNLLPSRQFGFIVLTTSAGI MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVFYLIQSVIFCR LALAEF*NPLMTHQSLGKFVVN PHRAGLNKCG\\VISPQILTVQLQ RPWKKWAGLILL/PSRQVLGFI VLTTSAGI\\MDHEEARPKTPRR GKSWGFFFLGDVNYILFYKLKC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETEVIESLISLFQKYVGKGGYN CTLSKTEFLSFMNAELAAFTKN QKDPGVLHRMMKKLGTNNDG QLDFSEFLNLIGGLAMACHDSF LKAVPSQKRT

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23392	53760	A	23527	1	407	FREKQSQELSQYGAMGAGQSF NSQFLQHGGPRGPSVPAGMNP TGIGGVMGPSGLSPLAMNPTRA AGMTPLYAGQRLPQHGYPGPP QAQP/PAPTGGQENLL*GVSRA AVSARSLPGPFRAIPVSHLAGNP TPPMNPH
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEEITIDPTCSWKVPVPKPD HIKEEPDGPALKRCRTVSPA LMPSVMEMIAALGPGAAPFAPL QPPSVPA PSDYPGQSSFLGPGT FPESFPPTTPSTPTLAFTPGPP CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPTHNPGLHTS NLGAPPGPQLHHSNPPASRQS LGQASLGPTGELAFSPATGVMG PPMSGAGEAPEALDLLPELT NPDELLSYLGPPDLPTNNDDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARI GFIRIARPRDGSFAYESVPWQ ATQPAGSLSVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLGLPSH AARPSTDFTQAAAAA VAAAA ATATATATATVAALQEKQSQE LSQYGAMGAGQSFNSQFLQHG GPRGPSVPAGMNP TGIGGVM
23396	53764	A	23531	80	412	KPGNGACAGREWCDDGGGA NWRDPGLPVGD SGVWDRVLL LLGPRSPRPLDVGGPAAGTPGV LSR/HLPVDCGLGPEALLCSSAP AARRPSLCGGHGRVMRGFRLG CGFRP
23397	53765	A	23532	1	192	RPLDVGGPAAGTPGVLSR/HLP VDCGLGPEALLCSSAPAARRPS LCGGHGRVMRGFRLGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGSGVDFVRRR SSGLWGPQPPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMMLDTFWNLTSIG KKWKDQNIIEYEQNPRRNFRS VTEEKVNEIKEDSHCGETFTPV PDDRLNFQKKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQEYGPCKCQPKKA FRYRPSFRTQERDHTGEKPYAL LKNDGKKPLFYHSSIQRHMOV HSGDGPYKCKFCGKAFHWLSL YLIHERHTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYECQ ECGKAFHSPRSCHRHHERSHMGE KAYQCKECKGAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIR\MHSGERPYECKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTRSFSRYHERTH TGEKPYECKQCGKAHERHTTG EKPYECKLYGKALSRLISFRRH MRMHTGERPHKCKICGKAFSS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHF\FQYHERHTTGEK PDGCKQCGKAFRSAKYIRIHGR THTGEKPYECKQCGKAFHWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKECKGAFIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDLTSALEQTSEQ NKLGELEWEEMALSPRQRRQL RKRRGRKRRSDFTHLAHTCC YSEASESSLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRR\KVKRVTS EVAASLQKK LKVSDWSYERGC RFKSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGS DENMSECETSSVCSSSDT GLFTNDEGRQGDDEQSDWFYE GECVPGFTV PNLLPKWAPDHCS EVERMDSGLDKFSDSTFLLPSR PAQRGYHTRLNRLPGAAARCL RKGRRRLVGKETSINTLGTERIS HIISDPRQKDFWLP SAGKRERN QFNPLSPLYSLDVLADASHRRC SPAHC SARQANVHWGPPCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFLHMAPGEVTITVRILRS LEHR\NFKPVVYHGVNLDQTV KEFIVFLKQDIPLRTNLP PFRN YKYDALKIIHQAHSKTNELVL SLEDDERLLLKEDSTLKAAGIA SETEIGIFREEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPI SLNWFEELSSEAPPYNS EPAE ESEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTLP LYQSPVKELDKFKLDLGRNVP NSRHKSLRTVKT KMDQADDVS CPLLNSCLS\ESPVVLQ\CTHVTP QRDKSVVCGSLFHTPKFVKGR QTPKHISESLGAEVD PDMSSWS SLATPPTLSSTVLIVRNEEASET VFPHDTTANVKSYSFNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCL\SDEVKESKRINAEIEKA AAAETRRDARREL/RRLLLLGT GESGKSTFIK\QMRIHGAGYSE EDKRGFTKL VYQNIFTAMQAM IRAM\ETL\KILYKVRSTRANA L\LIRGGGTLEKVTTFGAFSYVQ LPLKDLFGRDPGIQE/CAYERQP RSYQLSDSAKYLTVDVRIATL GYLPTQQ\DVPA GSRVPTT\GHE YPFLENII FARMVDVGG\QRS\ E RRKWIHCFENVTSIMFLValse YDQVLVESDNENRMEESKALF RTIITYPWF\QNSSVILFLNKKDL LEDKILYSHLVDYFPRSSMGPO R\DAKAAREFILKMFVDLNPNS DKII/YTSHFTCPHRHRRTSRFVF PAVKDTILQLNLEEYKPGLSAP GPGRRDGDTGQDLPSTEPAAA RAGGAAESGPGLPAGGDFFFF IFLTNGFYFTVIRGCTSLPPYTSR TFSPFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFSLNFTLPANT TSSPVT\DCGPSLGLAAGIPLL VATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDDPKISENPRR SPTHEKNTMGAQEAHIYVKTV AGSEEPVHdryRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFSLNFTLP ANTVSTA APIHQAT/PEKTSAEF TDCGPSLGLAAGIPLL VATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDDPKISENPRRSPTHE KNTMGAQEAHIYVKTVAGSEE PVHdryRPTIEMERRRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSPIIFVRKELTIRQC TKKVPGRLSEMSFSLNFTLPAN TTSSPVTGGKETDCGPSLGLAA GIPLL VATALLVALLFTLIHRR RSSIEAMEESDRPCEISEIDDPKI SENPRRSPTHEKNTMGAQEAHI Y\VKTVT\KSEEPVHdryRPTIE MERRRGLWWLVPRLSLGMMP TSNQGSHQTWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRAYQRALAAHP WKVQVLTA/GLLGRKAALLAP CQ*LYLPTQASWTEGHASCS SLQEATSCPSAFCA*NSKATKQLV ERRGLQEHRGRTLT MVS

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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRSRSMALWRAYQRALA AHPWKVQVLTAA\ASGEEGSTA GMPVAIPADPGLLD*RTRFLLL TPRSHFLPLCLLRMKLKSHKRS LMGLGDIISQQLVERRGLQEHQ RGRTLTMVSLGCGFVGPVVG WYKVLDRFIPGTTKVDA
23418	53786	A	23553	3	675	RHSRFGAQGSMA\WRAYQ\RT LFALPWK\VQVLTAGSLMGLG DIISQQLVERRGLQEHQGRRTL E/TMVSLGCGFVGPVVGWYK VLDRFIPGTTKVDA\ALKKMLLD QGGFAPSFLGCFLPLVGALNGL SAQDNWGQTTAGELG/RDYPD ALITNYYLWPAVQ\LANFYLP LHYRV\AVVQCVAVIWNYSLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPQKWA
23419	53787	A	23554	512	1227	LQGHLMGIMAASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVFLFKPSTGVRAQRA RPILMPAYTRNLHHELEL\ALVI GQ\RCRAVPE\AAAMDYVGGVY ALCL\DMTAWDVQ\ASARKKG LAWDSGE/DAFTASCPVQRVSL PKEKIPDPSQ\KALGFKVNGEL RQEGETSSMIF\SIPYIISYVSKIIT LEEGDIILTGTGPKGVGPVKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPEEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSV\EDLQML VTNILFAMKEDNEKVP

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23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPSCS EDPEEKPCFYGSSPHLEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRNYNAKTENLAPV KNQLQIQEEEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCSDTIEHEKEEEEFNEKSEN DSGINEEPLLTADQVIEEIEEMM QNSPDPEEEEEVLEEEDGGETSS QADSVLLQEMQALTQTFNNNW SYEGLRHMSGSELTELLDQVEG AIRDFWE\ELVQQLARRDELEF EKEVKNSFF\TVL\IEVQNKQK\E QRELMKKRRKEKGLSLQSSRIE KGNQMP\LRFSMEGISNILQSG IRQTFGSSGTDKQYLNTVIPYEK K\AYPPSVE\DLQMLTNILFA\M KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFFFKYFAYSPMPKNSKV KRELD DDTESVKDLLSNEDA ADDAFKTSELIVDGQEEKD TDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQLRVCDGGKQQWWTV SQSSARAITNTDQKSVQLDLIE
23423	53791	A	23558	321	568	CLWCGASWPRRHSSPGRPAGD HRGDRP/EGPDTQGPGRPEPSTE PAFNPQSSLDQGGGPAAPAVD DDTRRGHGGVCGDGGAGEA
23424	53792	A	23559	510	690	LRSPQ\RGVAAPPFLGSPVPFGG FRVQGGMAGQPSAPPALQTDD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFHFPWRR/ISCPSES TRSIHVDR\PRRNSASLSL SAFP VSAGALINGEAWVRMGQVPIPI KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTTGCGRDLTK TYSLEAYDNWFNCLSM LVATE VCRLLLSPGSAMLRSPATFQVV KKKHRTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLFVKDIYFLPQ NP\SNHLPNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIP\S YLLTAPHPTARKLSSSPFESEG PENHMEKDSWKTLRRTLLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLGDSQNLACVFCRKHD DCPNKYGEKKTKEKWNLT VH YYCLLMSSGIWQRGKEEGVY GFLIEDIRKEVNRASKLKCCVC KKNGAFIGCVAPRCKRSYHFP CGLQRECIFQFTGNFASFCWDH RPVQIITSNNYRESLPWHLLG NLFEPIPSY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEAGGGGPV*W N\GLQGPAGVPGRDGSPGANGI PGTPGIPGRDGFKEKGECLRE SFEESWTPNYKQCSWSSLNYGI DLGKIAECTFTKMRS
23432	53800	A	23567	600	888	QYNGMCSPGPAGVPGR\EGSPG ANGIPGTPGIPGRDGFKEKGE CLRESFEESWTPNYKQCSWSSL NYGIDLGKIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQPAS MPQSKGKSKRKKDLRISCM SKP PAPNPTPPRNLD SRTFITIGDRN FEVEADDLVTISELGRGAYGVV EKVRHAQSGTIMAVKRIRATV NSQEQKRLLMDLDINMRTVDC FYTVTFYGFALFREGDVWICME LMDTSLDKFYRKVLDK NMTIP EDILGEIAVSIVRALEHLH SKLS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTINAGCK VKHGHESLNPD LNRKGCDVKS HVWSLGITMIEMAFLRFPYESW GTPFQQLKQVVEHPSPQLPAGR FSPEFVDFTAQCLRK NPAERMS YLELMEHPFFTLHKTKETDIA\A FVKEILGEDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCSPPHPPRCGG VAQTAQVPDAPAPV*AG\QHSR SYMEDHLKKNRLEKEWEALC AYQAEPNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSISIVLCHRVT
23436	53804	A	23571	1	2974	QAAGMGPPPLLLLLLLLLLPPR VLPAAPSSVPRGRQLPGRLGCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVSVALQRL RVALQKLSGTGFTWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSERRYSREGGAAL ANALRRHLPFLEALSQAPASDV LARTHATAQDRPPAEGDDRFSES ILTYVAHTSALTYPGPRTQLH EDLLPRTLGLQLQPDELSPKVDS GVDRHHLMAALSAYAA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAAGQAAGMG PPLLLLLLLLLLPPRVLPAAPSS VPRGRQLPGRLGCLLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVSVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSERRYSREGGAALANALRR HLPFLEALSQAPASDVLARTH AQDRPPAEGDDRFSESILTYVA HTSALTYPGSRRTLREDLLPR TLGQLQPDELSPKVDSG

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23438	53806	A	23573	1	1459	MPLTSQDVDQKTA A W V P T N R D STVPSDPWDCKRRPWLLVLRP LAPGTKAPPGGQNGRGRQKGS PCSRRLLEPAGPLGPASVRCIR TTTPQLLIITTSRFPSEAAVGY GSNTCIFANACQMVFIMITWPY LQCIPYSVLLKDLEMRNLRELE DLIIEAVYTDIIQGKLDQRNQLL EVDFCIGRDIRKKDINNIVKTLH EWCDGCEA\ALLGIEQQVLRAN QYKENHNR/TLQQQVEAEDVYI LPQSGNDCRGLRFVSSLIGGVR CVHLKHKGDV V W E A I E E G E A LPGKYRLKGGRSV W A A A V R A VCMDQVTNIKKTLKATASSA QEMEQQLAERECPPHAEQRQP TKKMSKVKGLVSSSPLGPAGA AGTHQAWVRWGGDTKGPFPL STCSEFQTCSPHQRLPTLLVLF QKNCYSPSPTSPFSCSLQTQGL HQCHPKTGSDTAQLPSRRFLSL CKGLVSLPVFLLLPRHFVRLVIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAGKWHTQPE*SLRKAM*MF QILMMKMIVALARATSGTEAV AGRSWASGLRRSGRV
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVALVRPNNGGTAASHVVCR EMRPLRPLQSRRCSSRRRTGISN MRALENDFFNSPPRKTVRFGGT VTEVLLKYKKGETNDFELLKN QLLDPDIKDD\QIINW\LEFRSS VMYLTK\DFE\QLISIILRLP\WL NRSQ\TVVEEYLAFLGNLVA
23448	53816	A	23583	166	455	RWKPSGTWPRNPMERPGH*ES VPKPGD*AKKSGGET\RGRKEG NEHRETF SQIPDCHLNKKSQTG VKPCKCSVCGKVFLRHSFLDRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDKAAAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSERVREADGGKHEQRS FGDLHPTAAPAPAASGCGTQPG RVKQPGEWQHREAPQQRQPPV RPHGSHQLVTVRYERRPGGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWTGTSQSEA LCGKLSNQFLGEPLVPRIRLILS CGTCSGCSSPRKDPGHPEAGNG PSRDFQPLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRSLVERLCGRKE GNEHRETFISQIPDCHLNKKSQT GVKPCCKSVCGKVFLRHSFLDR HMRAHAGHKRSECGGEWRETP RKQKQHGKASISPSSGARRTVT PTSMRPYE\TKVCGKA\FIS\PIYF QIHQRTPTTEKRSYKCREIVRAFT VSSFFRKHGKMHTGEKRYECK YCGKPIDYPSLFQIHVRTHTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKKLSVCS SSLHRHERTHSGGKLYECQKC AKVFRCPSTSLQAHERAHTGERP YECNKCCKTFNYPSCFRRHKKKT HSGEKPYECTRCGKAFGWCSSL RRHEMTHTGEKPFDCQWVKS
23451	53819	A	23586	86	390	LGSGDLPEINPLSSCSLLREKD PPTTSGPQTTSRPNISPISNPELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLGDKSPVLLLFALER QRRHVLSMDPKLRCWSRTGKA AFPWCLIIAEMPDISPTFQRCQ TTQGRLPWSFTLSSKSRFSGEG ARACYKCQKSDHQAKECPQPG IPPKPCPICAGPTGNRTVQLTW QPLPEPELELPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLSMDPKLRCWSRTG KAAPWCLIIAEMPDISPTFQR CQTTQGRLPWSFTLSSKSRFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGPTGNRTVQLT WQPLPEPELELPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFPHPNLIS LRPNPLC PHPDLVSLCPDPFPAF LEAHKNFQTPEPQQPGIPPEPPP PGACYKC/HEI*PPGQGM PAAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPLELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPLGRVNTEQIAP FSEAEGPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPLELWPKAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDEQGPEK\TRQRALRG VSSVTEDTLNICRLCWQPLPEPLELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPWEINPPSSCSLLREKDPP MTSGPQT\TSRNPISNPDPDTG NRTVQLTWQPLPEPLELLPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQPLSPFN LGV TLQSLPSLNFNSFLFWQPLPEPLELWPKAL
23464	53832	A	23599	144	488	GYEIWCRDSDQGTFPWEINPPS SCSLLREKDPPTSGPQT\TRPR NISPNLVSGLFLLSSPPSLTIPQ PLSPFN LGATLQSLPSLNFNSFH FLVETKETRFIRGAKIPAPVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QMH/IKNSSVHGYPRLC VEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAVPENPVYEKKPK KEVKKRWNRSKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRDMICQ IANARIEG\DMIVCAP\YAHLP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHFRGMDQIYE\GQV\IE LTGDEYNVESIDGQPGCLHPAY WDARPLPRTYPLAIKVFGCP*R GA\VDGGLVLF\HSTKTIPPGY DS\ESK\EFNAES/IHRKPHPWAQ NVARLHAPTLMEEDEDA/YTK KQFSQYIKNSVTPDMM EEMV/Y RKAHAAIRENP\VYEKKPKKEV\ KRKRWNRPKMSLAQKKDRVA PKKASFLQSSRSGLLES\TPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVFFDVSIGGQEVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLQRGVL GLQ*GYR*TTCWP*MIAGDSDR RKDGVPIGYKGSTFH\RVIKDF MIQGGDFVNGDGTGVASIYRG PFADENFKLRHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIENVPT GPNNKPKLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHQICQVYCTLPPLL QTTRRVRRNPTLPTSASGSEPW RLANSSPVNPVFFDVSIGGQE VGRMKIELFADVVPNTAENFR QFCTGEFRKDGVPIGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLRHSAPGL LSMLTWPGKLTAGIFGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTACALGSM LAAERGTKN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NP\VVFFDVSIGGQEVGRMKIEL FADVVPKTAENFRQFCTGEFRK DGVPIGYKGSTF\HRVIKGF\MI\ QGGDFV\NGDGTGSRPVFTRGP ILQMKIFKL\RHSA\GLLSMAN SGP\STNGC\QFFITC\SKCDW/V WDGKHVVFGK\IIDGLLVMRKI E\NVPTGPNNKPKLPVVISQCG
23473	53841	A	23608	6	424	

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23474	53842	A	23609	3	470	DAWVSGRLTELPSSCFFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGGKKRKRSRKESYS VYVYKVLKQVHV\PD\TGISSKAM GIMNSF\VNDIFE\RIAGEASRLA HYNKRSTITSREIQTAVRLLLPG \ELCKHAV\SEGTNA\VTKYTSS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAWVRGLGASY RRGASSFPVPPPGAQGV AELLR DATGAEEEEAPWAATERRMPGQ CSVLLFPQGQSQVVGMRGRL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSPQVIENC/V VS/AGLAFSPFCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNFACLEA REHCKSLGPVNGQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRTRMLPVSGAFHTRLMEP AVEPLTQALKAVDIKKPLVSVY SNVHAHRYRHPGHIHKLLAQQ LVSPVKWEQTMHAIYERKKGR GFPQTFEVGPRQLGAILKSCN
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLLGAAPPLPWFPQAV FRPCPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALVECSAGRGGPVRLAV GCVLLRAPERGWRREGGAARG IPAGRSES LGALSPQVGVRSDI GINGNIWHPGVQTD FSSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNFACLEARE HCKSLGIENPVCEVSNYLPDC RVISGHQEALRFLQKNSSKFHF RRTRMLPVSGAFHTRLMEPAV EPLTQALKAVDIKKPLVSVYSN VHAHQIQIPGHIHKLLAQQLV SPVKWEQTMHAIYERKKGRGF PQTFEVGPRQLGAILKSCNMQ AWKSYS AVDVLQTLEHVDLDP

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23479	53847	A	23614	2	1050	GRCPTMSVRVARVAWVRGLG ASYRRGASSFPVPPPGAQGVAE LLRDATGAEEEAPWAATERRM PGQCSVLLFPQGGSQVVGMR GLLNYPRVRELYAAARRVLGY DLLELSLHGPQETLDRTVHCQP AIFVASLAAVEKLHHLQPSVIE NCVAAAGFSVGEFAALVFAGA MEFAEG\LRFLQKNSSKFHFR TRMLPVSGAFHTRLMEPAVEP LERKLLKAVDIKKPLVSVYSQR PTRIRLQAFPGNIQQSCLAQQLG LPK*KWEQ\TMHAIYERKKGR RGFPQTFEVGP\GRQLG\AILKS CNMQAWKSYS\AVDVLQTLEH \DLDPQEPPKMTGRGLKCNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PK ARAPRSLGCGSLGRFSTGVRPD KCIFPPETENAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PR AAPRSLGCGSLGRFSTGVRPD KCIFPPETEMSYLLFRNTVSR C
23482	53850	A	23617	1	673	MGQVKGHKLCLDFTLLSPDGG AAEGRCLELGWQAKEVEETIE GMLLRLEEFCSLADLIRS DTSQILEENIPVLKAKLTKMRGIYAK VDRIKAFVKMVGHHVAFLEAN VLQAERDHGAFQALRRWLGS AGLPSFRNDPTAPLRQVFEASP DPRLARTVTIQTQQPVVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEGAAISPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDPA NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSTAMTLPMSDPTAWATA MNNFGMAPVRIVGH

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23485	53853	A	23620	241	1823	NDDRAKFTVEDHTMQRDFRW LWVYEIGYAADNSRTLNV DST AMTLPMSDPTAWATAMNNLG MAPLGIAQGPILPDFDPALGMM TGIPPITPMMPGLGIVPPPIPPDM PVVKEIIHCKSCTLFPPNPNLPPP ATRERPPGCKTVFVGGLPENG EQIIVEVFEOCGEIIAIRKSKKNF CHIRFAEYEMVDKALYLSGNR ELKKFLNKEDNYFRKINLTALY KTVLEERCEKRRGGYRIRLGSS TDKKDTGRLHVDFAQARDLY EWECKQRM LAREERHRRRMEE ERLRPPSPPPVHYSDHECSIVA EKLKDDSKFSEAVQTLTWIER GEVNRRSANNFYSMIQSANS VRRLVNEKAAHEKDMEEAKEK FKQALSGILIQFEQIVAVYHSAS KQKAWDHFTKAQRKNISVWC KQAEIRNIHNDEL MGIRREEE MEMSDDEIEEMTETKETESEL KKLEGIVDGSVEVSAEALRKLL NEYERQVKEEQKVG YRIWGTI HNKGEGKKEEFAEELEKSSSER
23486	53854	A	23621	996	1512	RPVHLASPAKEQQGTRKGRRA PARLPVPTTGRGLEKGPESQAP PSFRQATGRFSRSGSSGGPTPSK NSRDCSHTPOLPTPRGNPYVFPS PGHPEPSRPVEMPAPG\EPRT LCRERTRKACPPKPRPPLGLPG DPTGPVTHHAPPVSPTGASGQE RRAEPGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINK\PYGLPV HGWPWG\QLCITDVLPIAKML HGHKAEPHLHLCHRLDKETTGV MVLAWDKDMAHQVQELFRTR QVVKKYWAITVHVPMPSAGVV DIPIVEKEAQGGQQHHKMTLSP SYRMDDGKMVKVRRSRNAQV AVTQYQVLSSTLSSALVELQPIT GIKHQLRVHLSFGLDCPILGDH KYSDWNRLAPQKLSVGTLLKL GLEQSKARYIPLHLHARQLILPA LGSQKEELNLVCKLPRFFVHSL HRLRLEMPNEDQENNEAKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVMSTSPMCEGPVPRRK PCASSVGQQNSRSRKAGRKT TLAGRHPVKIKKEAIQQKPLP ASSFSPALTRSGAIFGPCALTS APVLEYPLQKVVENEAFKVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPGA CFKCGNEGHRSRQCPNPGTTSQ EAELIALTRALTLAAGQQINIYS NSHYVFHIVHSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAIIHCRGHQTPDNPILAGN VLADQVAKQVALQPVQQQFLS LSLFSPLYSSEEKEDFRAQNLQ KQGPW/LQSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMATRAAASTSPT
23489	53857	A	23624	475	622	IHSKVLFSASSSSC*NTNNSWFR ASIKKNPEKQKNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLRGRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSR RRLRSAEPAMALSMPLNGLK EEDKEPLIELFVKAGSDGESIGN CPFSQG\LFMILWLKG\VFVS TVALKRKPADCQNLVPGTPPP\ LILFSSEVKTDVKNIEEFSEEV\ CPPKYLKLSPK\HPRSNTAGMDI FA\KFSAY\IKNSRPEANEALER GLLKTQLKLDEY\LNS\PLP\DEI DENSMEDIKFSTRKFLDGNEMT LADCNLLPKLHIVKVVAKKYR NFDIPKEMTG\WRYLTNAYS RDEFTNTCPSDKEVE\AYS DVAKR LHQVKSRL LKEVSFMSSP

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23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRGNG QERVPLYKLKRDTCAYRVAWRC NRLARAKVKRTSYRSGYGNGF EPGVEPDCVVLLALGVENDLV RISSKAEKYSLYEFSFPLRVSR CEEECRKEPWFNPGQKPSVLIT SGQILGQEEQKTLFPGLLSLVF QFNVENSCLRCLSLAENLEISAL LSLSCSSVIRLILINLEVTISPPIT LKHAPPLTSLEASSSSSGIEKKIH NNFRQGPFPSSATRSTFLMNHT SFDSYVVVSNIVPRLNLYPQVL DVLQSLHKIHLASNAKWTIQG PAKPDGLGLELGLHRYPDWEKE ERKKKRKRSVSPEKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSPPHSPQPSPRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMAGSGVRQVTSTASTF VKPIFSRDMNEAKRRVRELYRA WYREVPNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPRVRAWSGCF DKMAGSGVRQATS\TASTFVKA HFSVGDME\AKREGARVLTAP WYR\ EVPNT\VRVHQFQLD\TV KMGRDKVREMFMKNAHV\TDP RVVDL\LVIKGK\IE\LEETIKVL KQ\RTHVMRFFH\ETEAPRPKDF LSKF\YV\GHDPLKSFSGKDAR WILFLGAQIKLTIQWSLCDRIPL MNQFSAASFCLSKWGPWVLHI TCSFPFSWKCGVCKLD
23494	53862	A	23629	82	441	SLPINPVPTACTLQAPAGLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPAGPVFRRSQPLAQPN LPRSYHQAPGGQTPVALGLE\ CPKATNQPFGLTQRDPKSPAKV PPFEFSL
23495	53863	A	23630	3	504	DRSSSSTMSTGGDFGNPLRKFK LVFLGEQSVGKTSITRFMYDS FDNTYQATIGIDFLSKTMYLED R/TNVNSFQQTTKWIDDVTER GSDVIIMLVGNKTDLADKRQVS IEEGERKAKELNVMFIETS/KA GYNVKQLFRRVAAALPGIMPS VLFQIIPSQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSSTMSTGGDFGNPLRK FKLVFLGEQSSIGKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWDTAGQERFRSLIP SYIARDSAAAVVVYDITNVNSFQ ANYKSGIDDVRTERG\SDV\IM LVGNKTDLADKRQVSIEGERK AK\ELNV\ILMETSAG\YNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPQE\QPVSEGLF LTNLPCHLQPPFQKLTGFWPPY SFIDCSVNIGLMPFPFSNNVLRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPPSL/RARFLCPQRRP ERAR/PRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGFFWILNFFFLKKLGR KDVPWQDSTKEHLSVCRGLRG TWSVPSASDPLHPAWRRTCFRV PPTTGAREWWHLPPPALQRP DSRQCHRIPC
23498	53866	A	23633	1	560	MESIWAGLWTAQDTTVLADDF EFILWTLKRRPERAR/PRARGAS PRPEKTAGARKRRRGSCERPH GGLRRLPGARDQRAPPSDAG RSPGRLRRLPALLCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSLILWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGLFTRTHMKFGALTR IG\DLPWE\INPLSS\CSLLPEKDP PMTSGPQTDQPEHLTNFKSAA RRSSRTSSHRNLLHVLEIWQLD QGMPAARDF
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGLFTRMRVTFGAKTQDRS TPQETSPLSSPS\PTSGPQTNQ PKEHLTNFKLGKQSFHSSHASL ATLQSSSLATLQSPCPSNSNSFS SLVETRRRPGAVARLQSQLSGR LRGGRIA
23501	53869	A	23636	31	246	TALLLTQSLFGGLFTRTHMKFG AVTRIG\DLPWGINPLSSCSLLR EKDPLTISGPQTHQPEHLTNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPEINPLSSCSLL HEKDPPTTSGPQTNPQKHLTN FKSRKVERTKGLLKTHTLTKLSH QLKKAWTILLPLSLLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIG\DLPEINPLSSCSLL HEKDPPTTSGPQTDPRKEHLIN KSGACYTCRKSGH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIG\DLPEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLTQSLFGGLFTRTHMKFG AVTQIG\DLPEINQSPVLLCSLL REKDPPTTSGPQTDQPKHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRINALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEPPNPKGIPEF WFTIFRNVDMLSELVQEYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSAFAGPE IMDCDGCTIDWKKGKNVTVK IKKKQKRKGPGTVRTITKQVSN ESFFNFFNPLKASGDGESLDKD SEF/ASDFEIGHFFRER\PQAVLY FAGEALKDDDNFDEGEEEEDEL EGDEEGEDEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVSVGSTHASAHAYGE GSLRIIPVTRSPVMTNHIVQTF SPVNSGQP\PNYEMLKKEEQEVA MLGAPHNPAPPTST\VIHIRSET SV\PDHVV\WSLFNT\LFMNTCC LGFIAYAYS\VKSRDRKMVGDV TGAQAYASTAKCLNIWALILGI FMTILLIIPVLVVQAQR

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23509	53877	A	23644	243	643	NHTVQTFFSPVNSGQPPQRMRCIREEHEVAVAGGPHNPAPPTS TVIHIRSETSV\DHVWVSRVQ TPSSMNP\C\LGFIARLTP*SLR DRKMVGDTV\GAQA\YAST\AK CLN\IWAHDSGASVMTILLIVIPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMPPKFDPNKVVYL\RCTGGEVGA TSALAPKIGPLGLSPKKVGDDIA KAMGDWKGLRITVKLTIQNRQ AQIEVVPASAMIIKALKEPPRD RKKQKNIKHSGNITFDENGNIC STDNR\HRSLSRELSGTTKEILG TAQSVGCNVDGRHPHDIIDDIN SENDKQPRKSKMRTSFSPQIPG HEHFHYLLLLQHVVHCQLALT LARKEGSSTHHQKLSTYYFKEG NSKEPKKIQRNTELKKEGG GSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRG SFF KGPLPNTCGHFWEMVWEQKSR GVVMLNRVMEKGSVVEFVTEL FFYVALPKMFPVHYIVILLASKL EEVTFNFPPPPDLCTPFLQNYLR VAFQEVNSGCTGKTLVLRPYIT TEDVCQICVEKFKVGDPEEYSL FLFVDETWQQLAEDTYPQKIK A ELHSRPQPHIFHFVYKRIKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPLSALGPQRIGPP GSCLQIKSWVNDICQRQPG\DW KGP*GFTVKLTHSRTGQAPDCT RVP/VLPSCP*FIQSPSREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMR\HRSLSPEKLSWNPT* RDSWGIAQFSGAVNVDG\RH\ P HDNIDDIQQWVLWKCPRLST KENIFNKGII
23512	53880	A	23647	1	642	

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23513	53881	A	23648	894	2438	VETKRIQPQPPDEDGDHSDKED EQPQVVVLKKGDLSEVEVMKI KAEIKAAKADEEPTPADGRIIY RKPVKHPSDEKYSGLTASSKK KKPNEDEVYQDSVKKNSQKLI NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNGGAFR VLRDISRWATLCTSPQHSSEA KNIIPYQATQFQNEVHKWYKK KGGLKISKRKALFFLTQDIQKK LQKLALGPNTPTPDILKIASLVF YNQDQEEKERAQQNERQKEKL YWLSYKSASPFQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQLKDPSSYPGR IHKVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTREALEDLKF LFKQKDNSSAKTPGRAYAASPR DWTSEAEHIFQWDPNLKG MFKPASLLAKVKQDFPDHKE PIFRAIFSNITLMGIAPICVTGKTI KKRTRQHHHTPKSNLREQASQ GSLNWEWN
23514	53882	A	23649	200	1727	RTATSLDSVLYKSDYMTWKYR VSFFYILSCRLKK/QCTDNEHV YMELSKKLYKYPKEWKKEAS KVRQYEVTWVVS KR GKDYILK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAVHYRLYKDK REIEASLTGLTMRGIQIFQNL EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGCP MRSRHLLQLLSNSHRLYMNQ PVL RHIRKLEENEEKKYRESYI SDNLDLMDQLEKRSRASGSS AGSMKHKRLSRHSTASHSSHT SGIEADTKPRDTGPEDSYSSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLV DPRDLEQMNEESLEVSPDMCIY ITEDMLMSRKLNGHSGSLIVKEI GSSTSSSSETVVKLRGQSTDSLP QTICRKPKTSTDRHSLSLDDIRL YQKDFLRAGLCQDTAQS YTFG CGHELDEEGLYCNSCLAQQCIN IQDAFPVKRTSKYFSLDLTHDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRITYVK DLFACPKTDSLACISEDCRM GAGIAVLFFKKKFGGVQELLNQ HYKEKGLRTSQLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLKKHLNSGNSDSVCMAS SLNEDPEGSRITYVKGS\LFEGP KTDFLAPCISED CRMGAGITVL FKKKF\GGVQELLNQKKK\GE V\AVLKRRWGRLYIFTWITKRK RAFAQSPLYENLTEEFRGQLKS HLSEEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCHCRKQA AREIINMHFQAFWLCLGLLFISI NAEFMDDDDVETEDFEENSEEID VNESELSSEIHYKTPQPIGEVYFA ETFD SGRLAGWVLSKAK\KVD MDEEISIIDGRWEIEELKENQV PGDRGLVLKSRAKHHAISAVLA KPFIFADKPLIVQYEVNFQDGID CGGAYIKLLADTDDLILENFYD KTSYIIMFGPDKCGEDYKLHFIF RHKHPKTGVFEEKHAKPPDVD LKKFFTD RKT HLYTLVMNPDD TFEVLVDQTVVNKGSLLLEDVV PPIKPPKEIEDPNDKKPEEWDER AKJPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDDEPKFIPDP NAEKPDDWNEDTDGEWEAIPQ ILNPACRIGCGEWKPPMIDNPK YKGVWIPPLVDNPNYQGIWSPR KIPNPDYFEDDH\PILLTSFSALG LELWSMTSDIYFDNFICSEKEV ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD\ RHSDLEYIIPDICIPQTKGVLEQE EKVEKA ALEKPM DLEEEKKQ\N DGEMLEKEEESEPEEKSEEEIEI EGQESNQSNSKSGSEDEMKEA DESTGSGDGPISLRKRRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNCQKS GHWAR\NARSPGFLLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPLGFFICLRGDFKQ NLTA YCWKCYQL* RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFCLCSLIFSVTMMKFLAV LVLLGVSI FLVSAQNPTTAAPA DTVSSLLVLLMMKPLDAETTA AATTATTAAPTATTAASTTAR KDIPVLPKWVGDLPNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGFAFFQDKSSDKKVQTKG KRGAKGKQA\EVANQETKEDL PAENGETKTEESPA\ASDEAGEKE CQCLINNHIPCLISGPCLP\PSCTIQ RNIFINYFVNASFLVALETFLKK
23531	53899	A	23666	3	478	APAVGLSSSGGGRSGSGKAARF REGCRRAAARMQQA\PGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEPKRRSARLST\KLPKAK V\EA\KPKKAAAKDKSSDKKV\Q TKGKRGAKGKQA\EVANQETK\ EDLPAENGETERLEEESLLIEA GEKEKPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADCIGC\RT CEVACVVAHPSEQELNADVFL PRLKVQPIWTA\VSAAR*CCPFSS ENAP\CVGA\CPVGA\LTMG\EQV VQ\TNSARCIGCQSCVSACPF\GM ITIQSLPGDTRQ\QIVKCDLCEQR EEGPACVESCPTQALQ\LLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVFLQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPPHLHTGEL LCSAHQADFAVSAEPARPANN NAATTAPVHAVAITPPAYPDCF RTLPSKLSHQDSTQRLYGIARL LLRISTSGPPPSRLKVQRLDSISA PV/MCHQCENAPCVGACP/VGA LTMG\EQVVQ\TNSARC/IGCQSC VSACPF\GMITI/QSLPGDTRQ\QI VKCDL\CGALRDCVA\VLQR\RRN SRV\LD\ACTRA
23540	53908	A	23675	2	434	LISLPFPDSL\AHRPPSSAPTEPQ GLFTVAAPT\PGAPSPPATLAHL LPTPAMYSLLETELKNPVGTPT QAAGTGGPAAPG/GRKMALEN PKMHNSEISKRLGADWKLLTD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKT\CTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEDNNSNDSKNKDKTLT TGSSGSAKIFLMRGRRQLLLP TSLCLLSVQRSPGSHEGPPQS MNPRLSPQGKYLKNDFLDVIG MCDIACHLVVELLVGNNGNFL AHFAHVEVVAQQNQRENAA RPNGGSVMIGQGASLRTCQSRV LRVARGGPSPNPGESEQGLFTV AAPAPGAPSPPATLAHLLPAPA MYSLLETTELKNPVGTPTQAAGT GGPAAPGGAGKSSANAAGGAN SGGGSSGGASGGGGGTDQDR VKRPMNAFMVWSRGQRRKM APENPKMHNSEISKRLGADWK LLTDAEKRPFIDEAKRLRAVHM KEYPDYKYRPRRKTLLKKD KYSLPSGLLPGAAAAAAAAA AAAAAASSPVGVGQRLDTYTH VNGWANGAYSLVQEQLGYAQ PPSMSSPPPPALPPMHRYDMA GLQYSPMMPPGAQSYMNVAA AAAAAAGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAAAM SLGPMGSVVKSEPSSPPPAIASH SQRACLDLRDMISITGRENIFV VGDPAACLLPIEMEETFLPWPL GFEDRLHLEGPRPVQEIPSFLRK VPNCGQWLLQTPSVEPADPWE NPQAFPPSLQQEQPCLSLIVGIF VEAFGGRGRWGSKGKKPKRYR TVEWMRIHQPSICCLQETHLTR
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LG NK RAG LR RAD GEAP SALPY CY FLQ KDAEAPWLSKPAYDSA EC RHHA AEALRVAWCLEAASL SHRPGPRSGLSVSSLRPTRKMA TTFLAHEKIWFDFK KYDDAERR FYE QMNGPVAGASRQENGA\T VILRDIARARENIH KSLAGSSGP\ GAS\SGTSGDHGELVVRIASLEV ENQSLRGVVQELQQAISKLEAR LNVLGKELRLAHRGTAPQTQH VSPMR\QVEPP\AKKPATPAEDD EDDDIDL VGRDNEEEDKEAA QL\REER\LR\HYAEKKAQESLP LGGQVPPSLLDVK\PWDDSDM AQLEACVRSIQ/LGTGRSWGAS QMVAVGYG\IRKLQIQCVVEDD KVGTDLLEEEITKFEEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAK KKKKK
23545	53913	A	23680	1	2066	MAAALRAP TQVSAASSRPPLPS PPETEGRVKGFLQPGPHCPAQC LCSGDDGSNEDLEQKREVIFPR PHEAPVAEHRQQTVGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELLEDQMRLLYRDV MLENFAVMASLGCWCGAVDE GTPSAESVSVEELSQGRTPKAD TSTDKSHPC EICTPVLRDILQMI ELHASPCGQKLYLG GASRDFW MSSNLHQLQKLDNGEKLFKVD GDQASFMMNCRFHVSGKPFTF GEVGRDFSATSGLLQH QVTPTI ERPHSRIRHLRVPTGRKPLKYT ESRKSFREKSVFIQHQRADSGE RPYKCSECGKSFSQSSGFLRHR KAHGRTRTHECSECGKSFSRK THLTQHQRVHTGERPYDCSEC GKSFRQVS VLIQHQRVHTGERP YECSECGKSFSHSTNLYRHRS HTSTRPYECSECGKSFSHSTNLF RHW RVHTGVRPYECSECGKAF SCNIYLIHHQRFHTGERPYVCSE CGKSFGQKSVLIQHQRVHTGER PYECSECGKVFSQSSGLFRHRR AHTKTKPYECSECEKSF SCKTD LIRHQTVHTGERPYEC SVCGKS FIRKTHLIRHQTVHTNERPYEC DECGKSYSQSSALLQHRRVHT GERPYECRECGKSFTRKNHLIQ HKT VHTGERPYECSECGKSFSQ

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23546	53914	A	23681	1	468	MAAQVGAVRVVRAVAHEEP DKEGKEKPHAGVSPRGVKRQR RSSSGGSQEKGRPSQEPPLAPP HRRRSQPPTSWAAA VNDM/PAP TVPGPVEPLLLPPPPPSLAPAG PADDAPLPAPSTSGLFTFSPLTA SAAGPKHKGTQGAAQAPSPRP RW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVPQP DTRKGSVLK WISKRGKPLAVEI EESHCL\CLPLRTECLGIKP\IVH LFSTRPVIVPSLELNVDVDSIA HMFVADLLLMITLPSYDIPFYC LVFQNLVLEFYLY
23548	53916	A	23683	271	918	NQGLRDLGLCRICLVNKMFTSS ILGKGHRHSLVSIKQEHSA LRK AAG\PLPLKVGYC\QGFSPCDSL KYG\SWDEKDLTPQPDTHKGS VLRWISKRGKPLAVEIEEG\HCL PELPPGELECPG\ILKHGLYHWS SSEMGE\NRPMVG\ARHVYSNA ALLFF TALRIFGQRRNINLGLRA HPG\IVPPLELNVDIDSSAHM/FF LADLLIITLPSYIIFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRRFPVFSCSSSRVY AAISFHKRWKEGRCFGRTRGE MGWEGRSRSLKELNTRNDWNP GERELDFWRKITRFKEAASWTL EAL EEAGSTARRRVWLEDGRR TCEILSVLCTSSLSSNCASLDCV TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKLR EE GFRR\IN YSELKEEARTHGKEVI NLEKK\LDERLTRITNAEKS LKD LMELKTMARELRDECTSFSSQF DPLEERVSVMEDQM NEMK\QE EKFREKRIKRN/EKQSLQEIW DY VKRPNLHLIGVPESDRENGTKL ENTLQEIIQENFPNLARQANIQI QEIQRT PQRYSSRGATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLTADLLAETLQARRE WGPIFNILKEKNFQPRIAYPAKL SFISEGEIQYFADKQMLRDFVTT RPALKELLKEALNMERNN WYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPAGVPGGRGLGPPALGA AGRPGP*LPSRGAGLGTAARHA

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23552	53920	A	23687	322	402	DQEPTNSGHIGNLEQCLGHGYQR*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRCAELTAILLNEQAS PMCTIVLGYTGTSTITLPRTSCH FAPRLSNSQQHSSYQVGHKPES YCVRNWWVLGLTDFKNEAAD PHNSGGQLASPSGSRGAAGG\ VPASPAPCARTPQPLGGRWDW AP\GTGGGIRRGSGCTGTHGG GGRLRHGGLQSGGLPRGKAAK ARREIESSAGYSNSSSKCSII
23555	53923	A	23690	399	592	KCIHFPGPTPKFVCGVIVVTAVP /TFGM*TVYV**LPFSILAQNVG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTAAFTV HENPLLCSYRCWYPGKQEKK IKPQRGGKNRAEKLETLKSRAP LLFQRNAVPHQQRNKAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAAGTS CSFPCLVLSFRSSFRAGLVVTKS LSICLSVKYFISSSLMKLSLAGY EIVG*KFFSLRMLNIGPHSLLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFSISTLVNLTIMCLG VALLEKYLGCILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVVNV AGFTVTFELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIQYLAS RSESHPERSEGGTPDRNGHPAL SLASFNGAQDDRRTVQSLGEKP GLPEEMAAFMAGTEKEQNELG IEFFQLIIPASKRTHSENAFSSH GDDTECSRSGQGSPPSYRGP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQQALPRQLTTL TFYPPAFRSIKIFRIMILKTEMLH THARSQEALLKDSSKTMHLSTL PSCVRKSNYHHRERKIKTKEAF PAKIHRSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCSASLEV LAPEGGM LSPGDATMIPLNWK LTLP PGHSGLLLPLSQQVKKRV PVLVGVIDLDYQDEIDYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTKGKEV ENFEKNLEECITRITNTEKCLKE LMELKTKVRELREECRLRSRC DQLEERVSAMEDEMNEK
23559	53927	A	23694	933	1118	RVERRRLQTIKLLRATGGNSNQ RQRS*KL*KKFRMYN*NNQY REVLKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHRE*LMSSRLHSR* WAASSVCSSCVLLPSSH
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLL*W ASI*G*PD/AFSLAALNIFSISTL/ RESDNYSVWSCSSRGVSL*RSL YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTQMQI WFHFIFHH
23564	53932	A	23699	434	681	TLACLARLGKFSWIISCRVFSNL VPFSLSLSGTPIRRRFGLFT*SHI SWRLCSFLFILFSLNFPSPRFISV SSSITDTLSS

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23565	53933	A	23700	290	1231	RSFRAIGEVSIRGWGGGYAAQ LQSPSRLPVLGGGKKGSRGV GQGSSRAEVGLGSQRERSGTG AEAAAAAAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRIL MVGLDAAGKTTILYKLKLGEIV TTIPTIGFNVETVEYKNISFTVW GCGVARDK\IRPL\WRH\YFQN\T QGF DILWSDSN\DR\ERVNEA\R EEL\MKNAGAETSLRDAVLPFL/ FGNKTDLRNAMNAAG\IQDKL G\HSLRHRNWI\QATCATRG NGLYEGHLHWLANSVPKQEVES RTALT KHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLLELEVTCR CWSWQPLLEPLELR\RLSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTVTPCPLLRLSL LRACCCCLFLPLRFFSCPLLCL LCFFFSVCSPAHNKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A\RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*P\RLSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPRQCEESAIGP KFAWIISSFWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPEPLEL*P\RLSD
23579	53947	A	23714	684	917	GDFGLRQWGFLNIQSCHLQTGT I*LPLFLIEYPLFLSPA*LPWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLLT PRLGVQWPDPSLQ RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIIGWSRL
23582	53950	A	23717	2	88	

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23583	53951	A	23718	972	1967	FPPGRGRGPGRPAGCSRGRARA CPKPVDPVHVKRPMNAFMVWSR AQRKMAQENP\QMHNSEISKR LGAEWKLLTESEKRPFIIDEAKR LRAMHMKHEHPDYKYRPRRKPK TLLKKDKFAFPVPYGLGGVAD AEHPALKAGAGLHAGAGGGLV PESLLANPEKAAAAAAAAAAR VFFPQSAAAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSSGLPV LNMPNMHINSLGKNLALNLFV YNDANSMLDLCYDGVGDKGPI CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVIPTFSN HPLMSQRPSTWRQNPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPPTGSPLKHPGGAS GAAGAPIGEPQHPGAVVSVRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTLGLGSRRDGTREKG VEETPHRLHARTDTPAGCCGS PIGAPAAPEAPPGCFEG\PRWVE GVKKASPPLPAELIGWLVNFPL ARPVRPPSLSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTIIVTHYQRNRKGQ NISFSLVCEFHPSLADWTTVTA LTWTSPKDNSLTEESWLREGN VHRGMDEYVRAQSFLILMTLE NSGGSVVSK

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23586	53954	A	23721	937	2730	TNPCHDHYHHHHHCHHCH HHHHHCHHHHYHHHHHCRDH HYHHHHHCHHCHHHHHHCHH HHYHHHYHHHCHDHHYHHHH HCHDHHYHYHHHHCHDHHYH HHHHCHDHHYHYHHHCHDHH YHHHHHCHDHHYHHHHHCHD HHYHHHHHCHDHHYHYHHHC HHHRYHHHHHCHHCHHHHH/P HHHHHHHCHHHHYHHHHHC HHHHYHHHHHCHHHHYHYHC HHHHYHHHHHCHHCHHHHYH HHHHCHDHHYHHHCHHCHHH HYHHHHHYHDHHYHHHHHCH HCHHHHHHHHDHHHHHLCHH HYHHHHHHHHHHHYHHHHHH HLCHHHHYHHHHHHHHHHY HHHCHHCYHHHYHHHHYHCH HHYHHHHHYHPYHYHQHHHH YHPHHYHHHYHCHHHHDYH HPHHCHHHHHYHQHHYYPITII TTTITTTITTTITVTTFTTTTNT TAPTTPVTAITTTTTTTTITTT TPITITTITNITTTVTTVIITTF TTTIHPYHHHHHHHPVTITTTIT TATIITTTTSITTTITTTIVTTIII TTTAATHHHYHPYHHHYHHHH HHHHTHSYHYHHHHHHHCF HYHHHHYHHH
23587	53955	A	23722	2348	2571	
23588	53956	A	23723	4919	5142	
23589	53957	A	23724	2	370	
23590	53958	A	23725	588	701	
23591	53959	A	23726	295	521	
23592	53960	A	23727	2837	3061	
23593	53961	A	23728	272	436	
23594	53962	A	23729	239	514	
23595	53963	A	23730	105	367	TGRPPELLHLRSLSPPLL/CSSP/ TPPPQLPPPPVSLASGYPLHPL ARYPACPLPPRRARTEQRGGEQ PGVGASPLPIPGRWPGTEAT
23596	53964	A	23731	999	1145	
23597	53965	A	23732	1084	1893	

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRALAI PYLESLLGKSREIFKFKERVLT PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNDPAGASDHIVQFLR/LCF TSAFIRNRADFFRHFIDEEMDIK DFCTHEVEPMATECDHIQMTA LLQALSIALQVEYVD\GWIPALT QHVFLAATPSVYMLYKTSQY NILYAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIPEEYVLA RIAAENLRKPRIRDRLPKARFIA KSGACNLAHKNIREQGRFLQDI FTTLVDLKWRHTLVIFTMSFLC SWLLFAIMWWLVAFAGDIYA YMEKSGMEKSGLESTVCVTNV RSFTSAFLFSIEVQVTIGFGRM MTEECPLAITVLILQNVGLIINA VMLGCIFMKTAQAHRAETLIF SRHAVIAVRNGKLCFMFRVGD LRKSMIISASVRIQVVKTTTPE GEVVPQHLDIPVDNPIESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITQ ARTSYIAEEIQWGHFVSIVTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNSLRKRNSHRRNNFHRRN N\SIRRN\SSLMVPKVQFMTPE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSCLKVTSVCLTSAAASCRH RRSVEEYLV*KLPM/WSRRRK AAALTES/V/CIVFWLASWMMS RWLHYPDWVTIAQQVLMNVV SVMQADCRMNLLIFLRWLMR KIFHNILRHFSQLLNVPITRPF WILRPF
23602	53970	A	23737	766	1910	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTHAQ QVLMNVVSVMQADCRMNLEI FLRWLMRRASDICSSIHGD*EPL L/YAVFGKQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLRFCRHLGYGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQGTGTVPLVSS
23604	53972	A	23739	515	774	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLLSCLTTPPHCSFSI CFVICSRRTLILKGSSLMYVFCLP NTAIVMALSPRGWRSKFGMPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPCGRDVKSTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEK*RRL SPLHSLMMTARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFSGIPAYSMCI/CI GMAERMWCDNRNRHTVSSSG GNRLPNPDWAPGPRIVGLNIS LGPTVPTRIVGLIISLGPRSHSYR RSDNQGTGTVPTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMWWD QLWRGRP*RRCQQPQCGG*WH CFWATAHHSPLDSTLNHLHCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPPGGVAVLLQLGCCV LQDVSCKRLCYNRKGQSEIVL MS*ITMWKLFPRPPLLPFSTCIC *KTCGKGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCSWKERPPGNSL NVSRMVWDHDPTRVVGLIIGL GPRSHLYCRSDYQQRS\TSVCG CMPAVDCCCVLLIHNILRTVM WTKYLVTAQVPA*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLSTAAITSRAFLPDRRITT PPATSPSPFSSAMPRIISGPIWTF ATSRR*TGTPFSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFKNL YI*RKNPFILH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNKMCPLSEAPELYRR GFLTIEQIAMLPAPVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFSKA LFSILNTGGFMGTFFADYIRSVCR VLGLCMLLTGVLLMPAGWDE RGVRSERAWCTVETGRVHRSR VRVSRNTARDPANGLGHLLQS LGMPALEPGPTLGSALRWEFLQ TASPQLPVQPLHPAAATPQRS RGRGRGPKARALGLGPRSTSYR
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHSNAETPI* FAANADTSPRGPFPCR
23623	53991	A	23758	537	795	ADCPHLMGRPCLID*GPCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TGI/DGPKYLVTAQVPA*PGCI RCKCVAVDELASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQQSSLPCRASQRTLH LLLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLD SGVQLASPSGSRTG ATGGAHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRPAFH FKVSLSLPFSCVSSPFGPPLGPS PRKHQMADDAGAGVGGRRPR GPRMG/NRGGFRRGFGSGIRHQ GCGCGQGQGQGRGVRGGKAE YKEWMTVTKLGHLVKDIKIS LEEIYLSFFKTSSSLKDEVLKI MLVQKQTHTSQCTRFKAFVAT GDYNGHISLGIKCSKEVATAIC GAILLAKLSIVPACRGYWGNKIS KPHTIPCKVAGCCGSVLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPESCKDGSHSRSF
23629	53997	A	23764	2	260	LLEECRSLRSRCDQLEERV SAM EDEM NEMK*EGKFREKRISPKR APERSAKHGKEQVPAAAKSC QNVNTIETRKKLHQLTSKITS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDEL R EEGFRQSNYSELWEDIQTKGKE VENFEKTLEECITRITNTEKCLK ELMELKTKAQELRKECRSLRSR CDQQQERASVLEVLEV LAR\QL GRKRK*RVFN*EKRSNCPCLQ TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYTPPT DKQRAKS*VNSHSQLLQRE*NT *ESNLQES*NWISSHLHIQKSIQD GLKT*TLDLKPSKP*KKT*ALPF RT*AWARTSCLKHQKQWQQR T KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNLLI*QRAN IQNLQ*TQTNLQEKNKQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNEIPSH TSYNGNH

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23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLIAAGTTGFPTGKRAVS ATQLMTQFSPAREQSWRKN/DF DELRKE/GFARSNYS\EKCLKEL MELKTKARELREECRSLRSRCD QLEERVVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWYVVK RPNLRLIGVPESDAENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRTSQRYSSRRATPRHIIVRFT KVEMKENMLRAAREKGWVTL KGKPIRLTADLVAETLQARRE WGPIFEFP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDEL EEGFRRSNYSELQEETQTKGRE VENFEKNLDECITRTTNTTEKCL KELMELKAKAWELREECRSLR SRCNQLEERVSVMEDEMNMK REGKFREKRIKRNEQSPQVIRD YVKRPNLRLIGVPESDGKNGTK LENTLQDIIQENFPNLARQANIQ IQEIPRTS/QRYSSSEHSIIGLIGR FPS*RTDMFRAPKKREQKRNNR KIQKEEGGRTAPTGI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTTEKCLK ELMELKTKARELREECRSLSSR CNQLEERVPADEDEMNMKE D/GNRYDDRRQ/RKEEIMIKSW RFCCRHLIRVVRGWGPSKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	

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23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGSVERCTESYLHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLKKLC EQEFSVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEDI ESEAEDNGKWES VDRTSFFPALTSFQQSMIHKKI MTVFKSV EPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAALLSP AASGRVSKHQHIPTGFDPDKA LHKGKLTTRKDIYTENPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKECSSSPATEQ SWMENDFDELREE

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23665	54033	A	23800	1	2152	MDILGWASRAHKWKGRATGT HVFNLMREYLISLQCCASEQAA SPEHGASFRVWKS LGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDLRLVMDANKWEFRRH ALRPALTFFNEGDDLGV EALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGVDP GVEGLAPVPVLPVLRLEATAPK QPPRLPARLRAPLPSGRKLN CPRLRWGFFVQDGDGTELACL SEGDDGGCCQEAPLDHRPRRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLVM SSVQOGKLTTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKECSSSPA MEQWTWTDNDFDELREEGFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRSLRSRCDQLEER VSAMEDENEMKREGKFREK RIKRNEQSLQEIWDYVVRPNLR LIGVPESDVENGTKLENTLQDII QENFPNLRQANVQIQEIERMP QRYSSRRATPRHIVRFTKVEM KEKMLRAAREKGRVTLKGKPI RLTAVLSAETLQARREWGPIN ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTTPALKE
23666	54034	A	23801	1	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHSLS SGPLLLSVHPVGKLSAVVGRVF IHLSQRERRRRRVISAFPSEVPG SSHQGVPDSCGRSVGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQSASPPP KECSSSPATEQSWMENDFDEL EEGFRQSNYSELRKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECSRLRS RCNQLEERSVMEDEMNEK REGKFREKIRIKRNEQSLQEIWD YVKRPNLRLLIGVPESDVENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNTQSR STTWKLNNLLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDALKA VCRGKFIALNAHKGK QERSEIDTLTSQLKELEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREKNQIDTIKNDKG DITTDPTIEIQTIREYYKHLN KLENLEEMDTFLDTYTLPRLNQ EEVESLNRPIGTGSEIVAINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVVAFISSQEAQE DSREEEDRLESRFYFLFLELSY KTTGLNREPTVSLNSKSGTPMD QNEHSHWGPBAGKQCASRSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQTLTKTCSKSQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLLV TQLGRYTSQDQQAQRVKEIF GEDAMGHTIVLFTHKEDLNNG SLMDYMHDSDNKALSKLVAA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPVGSDERVKE FKQSLIKYMETQRSYALAEAN CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPPKERS SSPAMEQSWTENDFDELREEGF RRSHYSELPEDIQTEGREVENFE KSLEECITRITHTEKCLKELMEL KTKARELREECRLRSQCDQLE ERVSAEMEDEMNMKREGKFKE K\RIKRNEQSLQEIWDYVKRPN LRLIGVPESDAENGTKLENTLQ DRIQENFPNLARQANGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINRSWH DRFPDWKAGTGLKSAIFAW
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

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23671	54039	A	23806	1	4016	MGKKQNRKTGNS\KTQSAFP\ PKECSSSPATEQSWENDFDKL REEGFRRSNYSELRI\EDIQTKGK EVENFEK\NLEECITRITNTEKC LKELMELKTKGSRNYVKECR\ S LRSRCDQLEERVSA MEDEMNE MK*EGKFREKRIKRNEQSLQEI W\DYVK\RPNLRPIGVSESDGEN GTKLENTLQDIIPENFPNLARQA NVQIQEIQRTPQRYSSRRATPRH ILVRFTKVEMKEKMLRAAREK GQVTLKGKPIRLTADLSAETLQ ARREWGPIFNILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEEGWLCRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMS\TV VGQ GALPEDLSRCHLQTEAVQ RHPESLGCPLDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAFGRTERAAGGGDGA\RP \FGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVIS\LEK LENDKSFRDVILTSD\RPGVFSA GLD\LTEMCG\RSAHYAWVLE RVPQELWLRLYQSQL\VLVSAI NGA\CPAGG\CLVALTCDYTIL\ AGNPRYCIGLNETQ\LGIIAPF\ WLKDNPWRTPIGHRAAESALQ LGLPLPPPAEALQVGIVDQ\VVP \EEQVQSTALSAIAQWMAIPKP MAHK\LTKAIMRKGQGP\AWS RKG\YADVQNF\VSFISKDSIQKS LQMYLERLKEEKG

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23675	54043	A	23810	1	2665	MTTSIRQFTSSSSIKGSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSALGGSSYSSCYSGGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALLEA DTELEVKIRDWYQRQAPGP DYSQYYRIIEELQNKPPSDDL TLPSPLILTATVDNANILLQNDN AHLAAADFRTKFETEALCLSV EADINGPCRVLDELTLARADPE MHLENLKEELAYLKKNHEEMN APRGQVGGEINVMGAAPGVD LSRILNEMREQYEKMAEKNRK DAEDWFFSKTEELNREVATNSE LVQSGKSEISELRCMQALEIEL QSQLSMKASLEGNAETENRY CMQLSQIQLIGSVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEDAQTVQHTP GSPCVPEWAHDCSLPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLTSLGTMST CSHQFTSSRSMKGSCSIGSGG GSSRISSVLAGGSCHAPSTYGG ASCGLGGGYGGGFGSSSFASG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLKVRALLEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFTNYEHELAL QQTVEAGVNLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSPQPRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKDSDEV YNIKKESNRQRVGLELIASENF ASRAVLEALGSCLNKNKYSEGYP GQRYYYGGTEFIDELETLCQKRA LQAYKLDPPQCWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKKISATSI FFESMPYKVNPD TGYINYDQLE ENARLFHPKLIAGTSCYSRNLE YARLRKIADENGAYLMADMA HISGLVAAGVVPSPFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTGKEILYNLESLINSAV FPGLQGGPHNHAIGVAVALK QAMTLEFKVYQHQQVVANCRA LSEALTELGKIVTGGG/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPRETPTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSCFYRPTARSLT SLLGTMSTCSHQFTSSRSMKGS CSIGGSIGGGSSRISSVLGGSC HAPSTY/GGGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWG\GF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRAL E EANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTKYE\HELA LRQTVEADVNGLRRLVDELTL ARTDLEMQIEGLKEELAYLRKN HEEEMLALRGQTGGDVNVEM DAAPGVDLSRILNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSEVTELRR VLQGLEIELQSLSMKASLENQ L\ETKGRYCMQLSQIQGLIGSV EE\QLAQLRCEMEQQSQEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSSQQASGQSYSSREVFT SSSSSSSRQTRPILKEQSSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTDRSQGDRGAPAGFAL APILEFFLWDTSSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGETSSAKL PRCR/QGGWAGDSVKASKFRR KASEEIEDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTLDGEIDLKLLTKVL APEHEVR*VQWWQQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLQLREKALSLSYPAPKF L\EDDVGWWDWHLFTEVSSEV LTE\WDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGPWGPGFGGWGGATPPAP TSLRRLRAAGLAPRRRAKMGR RAQQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEEIE\DFRLRP QSLNGS\DYGGDIP\MPDLEEVQ EEDFVLQVAAAPPSI\QIKRVMT YRDL\DN DLM\KYS AIQTL DGE D\IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDP\PLQTEKEDPGG Q\ARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRCIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHCQETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQPACGVSRITYQQSCVSSC RR\PAKCVGASERIKTPRPASCF QDLPACCLSLNSSS
23688	54056	A	23823	1	538	PTRPLQQATCSPLSDIMSFNCST RNCSSRPIGGRCIVPVAQVTTTS TTDADCLGGICLPSSFQTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCRQTTCISNPCS TPTAGRSP/CVSSGSQPLGGISS VCQPVGGISTVCQPVGGVSTVC QPACGVSRITYQQSCVSSCRRTC